



Colour Television

Service Manual

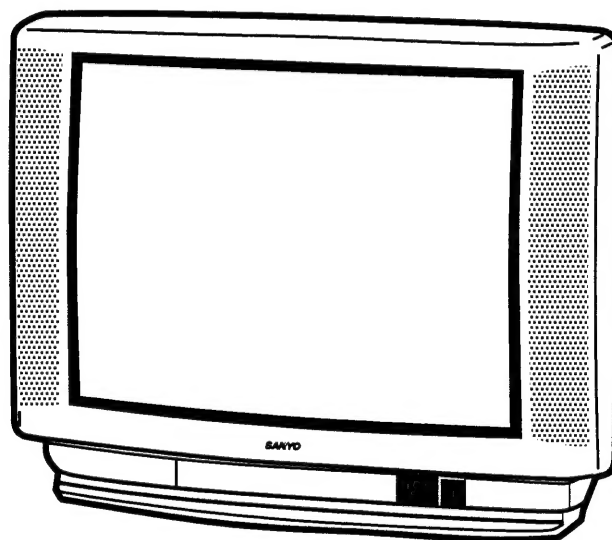
21DN2

Model C21ES57NB (U.K.)

Service Ref. No. C21ES57NB-01

PRODUCT CODE: 111327000

ORIGINAL VERSION: Chassis No. EB4-A



Give complete "SERVICE REF. NO." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.

**Note**

This TV receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specifications for the design specifications

**Specifications**

Power source	AC 220~240V 50Hz
Television system	System I
Colour system	PAL
Receiving channel	UHF 21~69
Aerial input impedance	75ohm
AV terminal	
21 Pin sockets	CENELEC standard
Sound output(Cont.)	5 watts X2
Picture tube	55cm diagonal, 90 degree
(Visible picture diagonal)	51cm
Dimensions (WxHxD)	610 x 479 x 485mm
Weight	21.5 Kg

## **SAFETY PRECAUTION**

- 1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.
- 2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.
- 3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc. Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.

## **X-RADIATION PRECAUTION**

The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

## **PRODUCT SAFETY NOTICE**

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark /! in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark /! . No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark /! .

This is a diagram for all models and therefore differs slightly from the actual block diagram.



# CIRCUIT DESCRIPTION

## 1. POWER SUPPLY

The power supply circuit of the EB4-A chassis is composed of a rectifier smoothing circuit, an oscillation circuit, a control circuit and an output rectifier circuit. The AC input voltage is full-wave rectified by the rectifier smoothing circuit, and an unstable DC voltage is generated at both terminals of the smoothing capacitor C607. This voltage is input to the oscillation circuit. The oscillation circuit is provided with a blocking oscillator circuit that switches the switching transistor Q613 ON and OFF, and an oscillation frequency and a duty square wave pulse are generated in the input windings according to operation of the control circuit. A square-wave pulse whose size is dependent on the turn ratio of the input and output windings is obtained in the output winding. This is rectified in the output rectifier circuit, and the desired DC voltage is obtained.

## 2. IF & DEFLECTION (TDA8361)

The IF output signal from the tuner passes through the SAW filter, and it is input to pin45 and pin46 of IC201. The signal input to the IC passes through the IF amplifier, video detection and video amplifier circuits and is output from pin7 as a composite video signal. And after this signal is converted to impedance at Q151, supplies to the video and chroma amplifier stages.

The sync-separation circuit separates the video signals applied to pin13(internal video signal) or pin15(external video signal) to vertical- and horizontal-sync. signals respectively. The horizontal oscillator requires no external components and is fully integrated. The oscillator is always running when the start-pin36 is supplied with 8V. Horizontal drive signal is output from pin37. VR361 is for adjustment of the horizontal centring. The separated vertical-sync. signal from sync. separation circuit passes through the vertical-separation circuit, and applied to trigger divider circuit. The horizontal oscillation pulse and input vertical sync. pulse are monitored by the trigger divider circuit, and switching 50Hz and 60Hz system, the vertical amplitude automatically adjusted for 50Hz and 60Hz. The output signal from the trigger divider is triggered vertical oscillation circuit consisting of C351, R352 and pin42, and vertical drive pulse is output from pin43. VR501 is for changing the amount of AC feedback applied to pin41 and for adjustment of the vertical amplitude.

## 3. VIDEO CHROMA & R.G.B. (TDA8361)

The composite video signal output from the pin7 of IC101 passes through Q151-Q154, and it is supplied to pin13. The external video signal output from SCART is supplied to pin15. The video signal input to pin13 or pin15 is separated to luminance (Y) signal and chroma signal in IC201. These pins are used in common with H/V-sync. separation input. The peaking of Y signal is adjusted by DC voltage of pin14. ("SHARPNESS"

control) The chroma signal is divided into R-Y and B-Y chroma signals, demodulated in IC201, and output from pin30 (R-Y) and pin31 (B-Y). These chroma signals pass through the 1H delay line circuit (IC271), and they are input to pin29 (R-Y) and pin28 (B-Y). These R-Y/B-Y signals pass through RGB matrix circuit and RGB selector circuit of IC101. The internal RGB signals are generated in RGB matrix circuit and the RGB selector, consisting linear amplifiers, clamps and selects either the internal RGB signals or the external RGB signals input from pin22(R), pin23(G), pin24(B). Selection is controlled by the voltage at the RGB switch control (pin21) and mixed RGB modes are possible since RGB switching is fast. The RGB switch also functions as a fast blanking pin by blanking the RGB output stages; here internal and external RGB signals are overruled. The colour gain is controlled by DC voltage of pin26. ("COLOUR" control) The contrast control voltage present at pin25, and the brightness control voltage present at pin17 controls DC level of RGB signals. The RGB signals are finally buffered before being available at the RGB output pins [pin20 (R), pin19 (G), pin18 (R)].

## 4. AUDIO OUTPUT(TDA7263M)

The audio signals output from the audio unit are input to pin1(L) and 5(R) of IC171 and passes through the pre-amplifier circuit and drive circuit, after which it is input to the audio amplifier. The audio amplifier is an SEPP (single-ended, push-pull) OTL type and output to pin8(R) and 10(L) to directly drive the speakers.

## 5. VERTICAL OUTPUT (LA7832/LA7832)

An IC (LA7832/LA7833) is used for the vertical output circuit in this chassis. The vertical drive pulse from pin43 of IC201 is input to pin4 of IC501. This pulse drives IC501, and vertical scanning is performed. In the first half of scanning a deflecting current is output from pin2 and passes through the following path:

Vcc(B4) → D501 → pin3 → pin2 → DY → C512 → VR501/R509. An electric charge is then stored in C512. In the last half of scanning the current path is C512 → DY → pin2 → pin1 → VR501/R509 → C512. In this way, an amplifying sawtooth waveform current flows directly to DY to perform electron beam deflection. Next, in the first half of the banking period the vertical drive pulse suddenly becomes OFF, and in order to reduce the current flowing to DY, the current path becomes as follows by the inductance of DY:

DY → pin2 → pin1 → VR501/R509 → C512 → DY. Also, when the charge of DY has dissipated, the current path becomes Vcc24V → pin6 → pin7 → C502 → pin3 → pin2 → DY → C512 → VR501/R509, and when the prescribed current value is reached, the vertical drive pulse becomes ON. This completes one cycle.

## 6. HORIZONTAL OUTPUT

A horizontal oscillation signal is output from pin37 of IC201 and switches the drive transistor Q431. This switching signal is current amplified by the drive transformer T431 and drives the output transistor Q432. When Q432 becomes ON, an amplifying current flows directly to DY through C441 → DY → 0432 → GND, and deflection is performed in the last half of the scanning period. Next, when Q432 becomes OFF, the charge that had been stored in DY up to that point releases a resonance current to the resonant capacitors C421/C423 and charges them. The current stored in C421/C423 is then flowed back to DY, and an opposite charge is then stored in DY. This opposite charge then switches the dumper diode in Q432 ON, the resonance state is completed, and an amplifying current is then flowed again directly to DY through the dumper diode. By this means, deflection in the first half of the scanning period is performed, and when Q432 becomes ON at the end of the first half of the scanning period, deflection during the last half is begun, thus completing one cycle.

In the PCC circuit consisting of Q461 and Q462, the parabola signal supplied from the vertical circuit is added at the horizontal output stage and pincushion compensation is performed by varying the DC voltage bias. Further, the ABL voltage is feedback to the base of Q462 to compensate for width variations due to variations in the beam current.

**Pin25:** Black

**Pin26:** IREF

**Pin27:** Odd/Even output

**Pin28:** GND

**Pin29:** -

**Pin30:** V-deflection stop output

**Pin31:** RGB REF

**Pin32:** Blue output for OSD

**Pin33:** Green output for OSD

**Pin34:** Red output for OSD

**Pin35:** Blanking output for OSD

**Pin36:** H-sync. input (Horizontal pulse for OSD)

**Pin37:** V-sync. input (Vertical pulse for OSD)

**Pin38~39:** Supply (+5V)

**Pin 40:** OSC GND

**Pin 41:** Oscillator input for CPU

**Pin 42:** Oscillator output for CPU

**Pin 43:** Reset input

**Pin 44:** Supply (+5V)

**Pin 45:** Protect signal input (L:Power circuit defects)

**Pin 46:** Ident. signal input

**Pin 47:** R/C signal input

**Pin 48:** Mute output in no picture

**Pin 49:** I<sup>2</sup>C bus SCL (Serial clock)

**Pin 50:** I<sup>2</sup>C bus SDA (Serial date)

**Pin 51:** Option SW5 & Band select output1

**Pin 52:** Band select output2

## 7. CPU <System and Teletext Control>

### Pin description

**Pin1:** Tuning voltage output

**Pin2:** Brightness control output (6-bit DAC)

**Pin3:** Contrast control output (6-bit DAC)

**Pin4:** Colour control output (6-bit DAC)

**Pin5:** Sharpness control output(6-bit DAC)

**Pin6:** Not used (GND)

**Pin7:** Not used (GND)

**Pin8:** Power ON/OFF output (H:ON)

**Pin9:** AFT signal input

**Pin10:** Option SW1 & Keyboard scan input (DC)

**Pin11:** Option SW2

**Pin12:** 50/60Hz switch input (50Hz: Hi)

**Pin13:** GND

**Pin14:** TV/AV switch output (TV: Hi)

**Pin15:** S-VHS switch output (S-VHS: Hi)

**Pin16:** Option SW3 (2AV: Hi)

**Pin17:** Function signal input for SCART1

**Pin18:** Function signal input for SCART2

**Pin19:** Power LED drive output1

**Pin20:** Option SW4 & Power LED drive output2

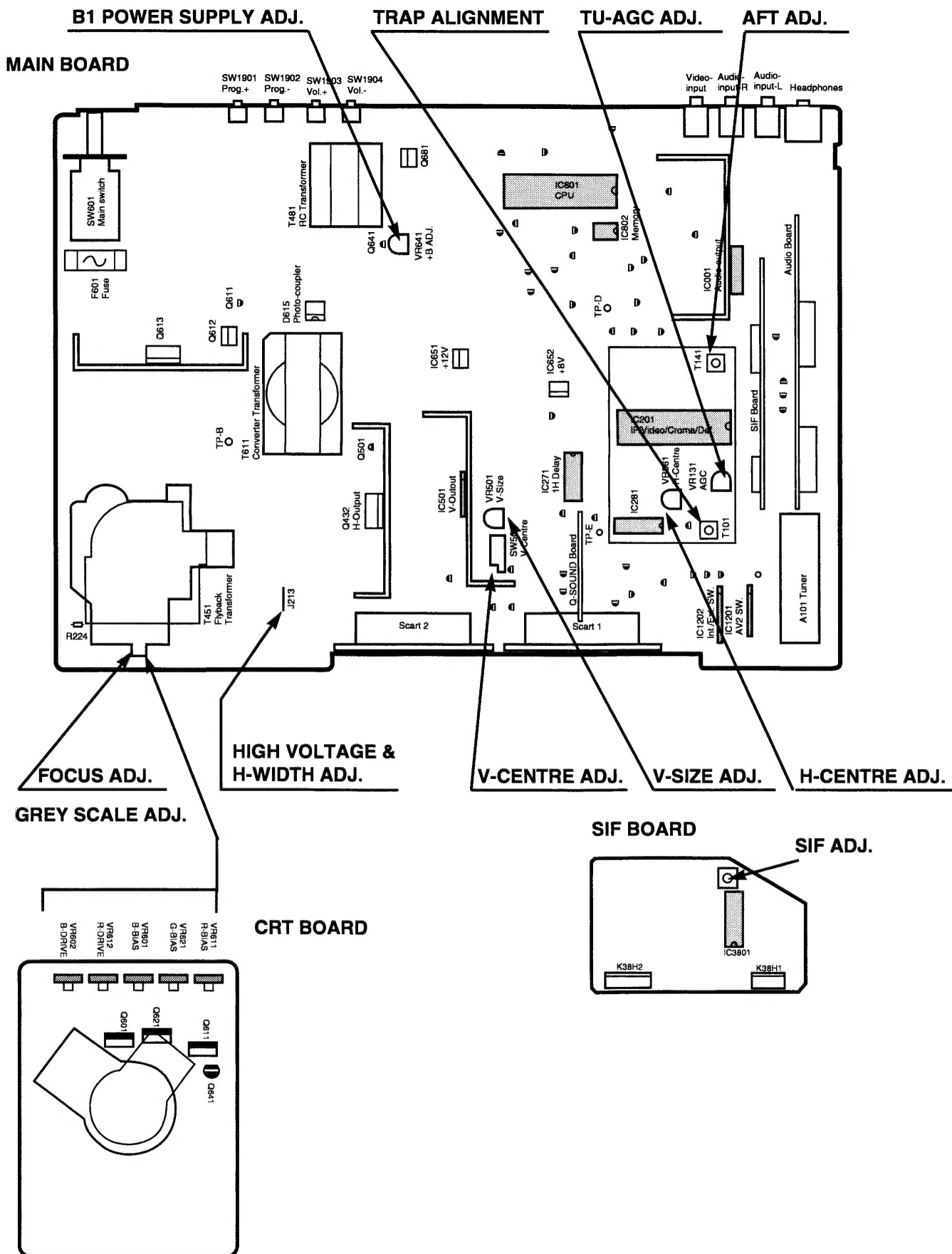
**Pin21:** Ignore output

**Pin22:** GND

**Pin23:** CVBS input0 (Internal)

**Pin24:** CVBS input1 (Internal/External)

## SERVICE CONTROL ADJUSTMENT



### **B1 POWER SUPPLY ADJUSTMENT**

1. Set VR641 to it's mechanical centre before pressing the mains switch.
2. Tune the receiver to a PAL circular pattern.
3. Set the brightness and contrast controls to normal.
4. Connect a digital V-meter to test point "TP-B".
5. By using VR641, adjust the voltage to  $130 \pm 0.5$ .

### **AFT ADJUSTMENT**

1. Tune the receiver to the clearest station.
2. By using T141, adjust AFT to obtain the best picture.

### **AGC ADJUSTMENT**

**NOTE: Do not attempt this adjustment with a weak signal.**

1. Tune the receiver to the clearest station.
2. Turn AGC VR(VR130) in direction which causes snow noise to appear, then in the opposite direction until the snow noise just disappears.

### **GREY SCALE ADJUSTMENT**

#### **[SCREEN VR ADJUSTMENT]**

1. Tune the receiver to the white pattern.
2. Set the brightness and contrast controls to normal.
3. Set VR2602 and VR2612 to its mechanical centre.
4. Turn VR2601, VR2611 and VR2621 fully anti-clockwise.
5. Set the TV into service mode by pressing the Function button **F** on the Remote control and the Prog + **P** on the TV front panel. Press the Function button **F** on the Remote control until "SCREEN" is highlighted. This sets up a horizontal scanning line.
6. Set screen VR so that one colour is just visible.

#### **[BIAS VR ADJUSTMENT]**

7. By using VR2601, VR2611 or VR2621, adjust line to be white.
8. Set screen mode OFF, by pressing the Recall button **□** on the Remote control.

#### **[DRIVE VR ADJUSTMENT]**

9. By using VR2602 and VR2612, adjust white balance.

### **HIGH VOLTAGE & WIDTH ADJUSTMENT**

#### **[HIGH VOLTAGE ADJUSTMENT]**

1. Tune the receiver to circular pattern.
2. Set the brightness and contrast controls to maximum.
3. Connect digital V-meter to both terminals of R224, and a high voltage meter to the CRT anode.
4. Confirm high voltage to be  $25.0 \pm 1$  KV at beam current 1.1mA, and less than 28.0 KV at 0 beam current.

#### **[H-WIDTH ADJUSTMENT]**

5. If H-width is too wide or narrow, connect or disconnect a lead wire J213.
6. Reconfirm high voltage.

#### **H-CENTRE ADJUSTMENT**

1. Tune the receiver to circular pattern.
2. Adjust H-centre by using VR361.

#### **V-CENTRE ADJUSTMENT**

1. Tune the receiver to circular pattern.
2. Adjust V-centre by using SW501.

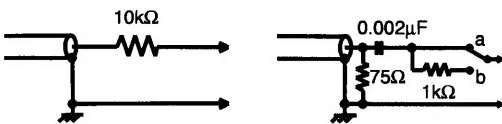
#### **V-SIZE ADJUSTMENT**

1. Tune the receiver to circular pattern.
2. Adjust V-size by using VR501.

#### **FOCUS ADJUSTMENT**

By using FOCUS VR, adjust focus control for good scanning lines.

CIRCUIT ALIGNMENT



VIF alignment

Input probe

Output probe

SETTING		Adjustment	Waveform
DC 15.5V AGC voltage (4.3-4.5V) Output probe  Input probe  Marker frequency Sweep ATT 0dB=176mVrms/75	C644 + IC201-pin48 IC201-pin45 (Side b) IC201-pin7  39.5MHz 20dB	By using T141, adjust "P" to be maximum amplitude.	

Trap alignment

SETTING		Adjustment	Waveform
DC 15.5V Output probe  Input probe  Marker frequency Sweep ATT 0dB=176mVrms/75	C644 + Tuner IF (Side a) Q101-C  41.5MHz 11dB	By using T101, adjust "A" to be minimum amplitude.	

SIF alignment

SETTING		Adjustment	Waveform
DC 12V AGC voltage Output probe  Input probe Sweep ATT Marker Frequency	IC3801-pin11 IC3801-pin3 IC3801-pin1 (Side b) IC3801-pin12 10dB 38.5MHz	1. Adjust AGC voltage to be "A" = 0.5Vp-p. 2. By using T3801, adjust "P" to be equal centre line.	



# INITIALISATION (Important Notice)

When you replace a memory IC (IC802), it is necessary to initialise the IC as following step.

## A. Initialisation

Press and hold the **normalisation button** →← on the remote control handset and press the **programme + button** P▲ on the TV set.

The IC will be initialised automatically to set the following data.

### User control data

Colour	: Centre
Brightness	: Centre
Contrast	: Maximum
Sharpness	: Centre
Text. Bright	: Centre
Bass	: Centre
Treble	: Centre
Balance	: Centre
Volume	: Step 12

### Service data

K1	: +000
K2	: +000
ST ID	: +000
ATT	: +004

### Manual set data

->	+001
->	-001

The initialised service data of items K1 and K2 should be modified to the manual set data shown above.

For how to modify, refer to next step.

## Service mode description

K1, K2 : For adjustment of stereo separation

ST ID : Mode setting for A2 stereo judgement

+000 : Fast mode

+001: Normal mode

+002: Fast -> normal mode

ATT : Attenuation of FM sound

To equalise sound level between FM and Nicam.

SCREEN: For screen adjustment

To make one horizontal scanning line.

### NOTE:

The items K1, K2, ST ID and ATT are invalid adjustments for this model.

The data for K1,K2,ST ID and ATT can be altered, but it has no effect.

## B. Service Mode

1. To entre the service mode, press and hold the

**Function button** F[...] on the remote control handset and press the **programme + button** P▲ on the TV set.

The following OSD appears on the screen.

ADJUST	DATA
K1	+000
K2	+000
ST ID	+000
ATT	+004
SCREEN	VOL
CPU Ver	1.0

2. Select desired service item by using the **Function**

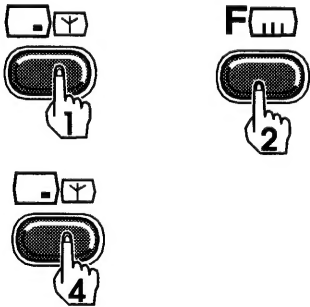
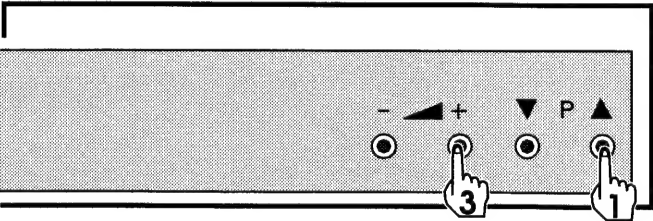
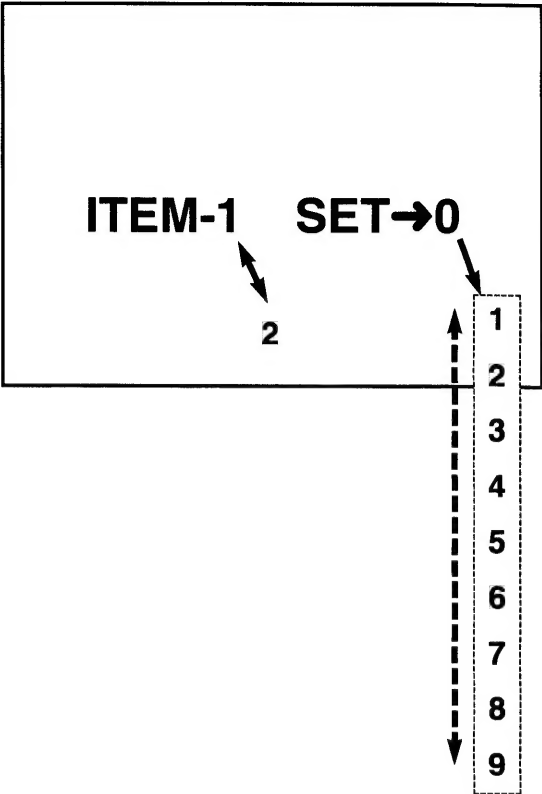
**button** F[...] on the remote control handset.

3. Change date by using the **Level + or - button**

— ▲ + .

4. To return to TV mode press the **Recall button** [ ] on the remote control handset.

# SPECIAL FUNCTIONS



This TV set allows you to set up the following special functions.

## ■ Maximum volume setting and prohibition of presetting.

### ITEM-1

Sets the current volume as the maximum volume level and prohibition of presetting.

SET→ 0 NO  
SET→ 1 YES

## ■ Start up programme position

### ITEM-2

Presets the programme position when the set is switched on.

SET→ 0 Last programme position start  
SET→ 1 Programme position "1" start  
SET→ 2 Programme position "2" start  
SET→ 3 Programme position "3" start  
SET→ 4 Programme position "4" start  
SET→ 5 Programme position "5" start  
SET→ 6 Programme position "6" start  
SET→ 7 Programme position "7" start  
SET→ 8 Programme position "8" start  
SET→ 9 "AV1" start

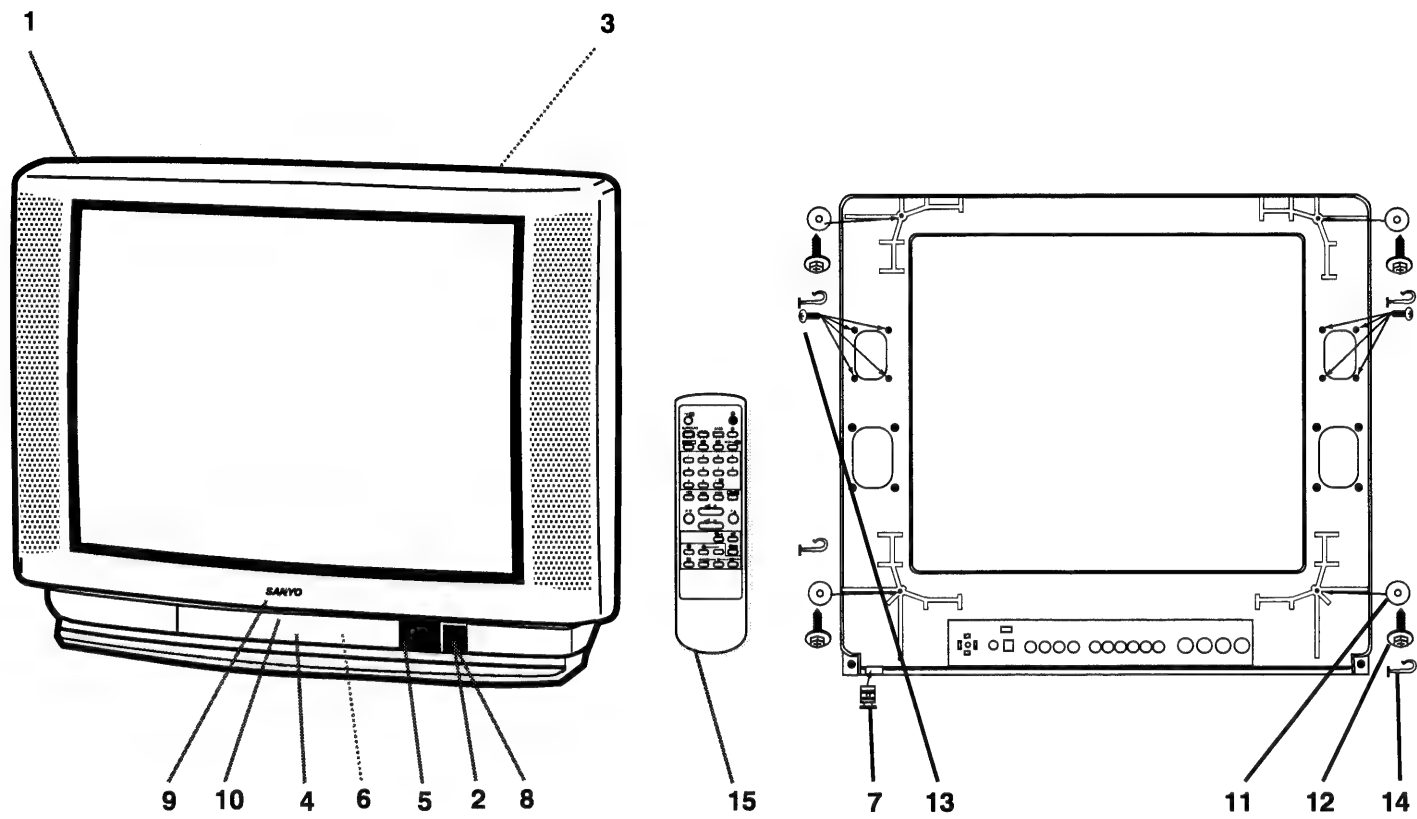
## SETTING PROCEDURE

- 1 Press and hold the button on the Remote control handset and then press the **P** button on the TV set.
- 2 To select the "ITEM" number, press the **F** button on the remote control handset.
- 3 To select the "SET" number, press the + or - button repeatedly.
- 4 To return to the normal TV mode, press the button.

- The setting conditions of all items can be confirmed.
- Special functions are not cancelled if the TV set is switched off or the mains disconnected.

SERVICE REF. No. C21ES57NB-01  
CABINET PARTS LIST

Note: Parts order must contain Service Ref. No., Part No., and descriptions.



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET PARTS					
1	610 268 0478	ASSY,CABINET FR-F3JA			
2	610 261 6057	BUTTON POWER-F3SCM			
3	610 264 8003	CABINET BACK-F3JLV			
4	610 267 2244	DOOR-F3JAV			
5	610 261 6132	DEC BOARD-F3SCM			
6	610 261 7726	DEC CONTROL SHEET-F3SCM			
7	610 253 2449	HOLDER AC CORD-GBR-D4VA			
8	610 261 3032	SPRING-E7GC			
9	645 003 9256	BADGE,SANYO*46.2X13.5L45			
10	610 104 2505	LATCH PUSH,7.9X6.9BK			
11	610 224 5721	SPACER CUSHION-B3MY			
12	412 009 3003	CRT SCREW 6 X 30			
13	411 076 1400	SCREW TPG 4 X 14			
14	610 265 4202	HOLDER DEGAUSS COIL-F3SC			
ACCESSORIES					
15	JXTP	RC TRANSMITTER			
	610 267 2336	INSTRUCTIONS MANUAL-F3JAV			
	645 000 6708	BATTERY,MANGAN,COMPOSITE			
TV STAND					
16	1AA0SDZ0010--	TV STAND MST2171			

# CHASSIS ELECTRICAL PARTS LIST

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Parts order must contain Service Ref. No., Part No., and descriptions.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
<p>Read description in the Capacitor and Resistor as follows:</p> <p><b>CAPACITOR</b></p> <p>CERAMIC 100P K 50V</p> <p>_____ Rated Voltage</p> <p>Tolerance Symbols:  Less than 10PF  A: Not specified B: ±0.1PF C: ±0.25PF  D: ±0.5PF F: ±1PF G: ±2PF  R: ±0.25-0PF S: ±0-0.25PF E: +0-1PF  More than 10PF  A: Not specified B: ±0.1% C: ±0.25%  D: ±0.5% F: ±1% G: ±2%  H: ±3% J: ±5% K: ±10%  L: ±15% M: ±20% N: ±30%  P: +100-0% Q: +30-10% T: +50-10%  U: +75-10% V: +20-10% W: +100-10%  X: +40-20% Y: +150-10% Z: +80-20%</p> <p>_____ Rated value: P=pico farad, U=Micro farad</p> <p>Material:</p> <p>CERAMIC..... Ceramic  MT-PAPER..... Metallized Paper  POLYESTER..... Polyester  MT-POLYEST..... Metallized Polyester  POLYPRO..... Polypropylene  MT-POLYPRO..... Metallized Polypropylene  COMPO FILM..... Composite film  MT-COMPO..... Metallized Composite  STYRENE..... Styrene  TA-SOLID..... Tantalum Solid  AL-SOLID..... Aluminium Solid  ELECT..... Electrolytic  NP-ELECT..... Non-polarised Electrolytic  OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic  DL-ELECT..... Double Layered Electrolytic</p> <p><b>RESISTOR</b></p> <p>CARBON 4.7K J A 1/4W</p> <p>_____ Rated Wattage</p> <p>Performance Symbols:  A: General B: Non flammable Z: Low noise  Other: Temperature coefficient</p> <p>Tolerance Symbols:  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%  F: ±1% G: ±2% J: ±5% K: ±10%  M: ±20% P: +5-15%</p> <p>_____ Rated value, ohms:  K: 1,000, M: 1,000,000</p> <p>Material:</p> <p>CARBON..... Carbon  MT-FILM..... Metal Film  OXIDE-MT..... Oxide Metal Film  SOLID..... Composition  MT-GLAZE..... Metal Glaze  WIRE WOUND... Wire Wound  CERAMIC RES.. Ceramic  FUSIBLE RES.... Fusible</p>			<p><b>OUT OF CIRCUIT BOARD</b></p> <p><b>PICTURE TUBE</b></p> <p>⚠Q901 414 007 9001 CRT A51EBV13X09</p> <p><b>COIL</b></p> <p>⚠L901 645 002 5624 COIL,DEGAUSSING  645 002 5631 COIL,DEGAUSSING</p> <p><b>MISCELLANEOUS</b></p> <p>SP901 610 232 3986 SPEAKER  610 228 7202 SPEAKER  SP902 610 232 3986 SPEAKER  610 228 7202 SPEAKER</p> <p>⚠W901 645 011 8838 CORD,POWER  W902 610 024 2531 GROUNDING CONNECTOR</p> <p><b>ASSY,PWB,SIF F3SAM</b></p> <p><b>1AA0B10E230GA</b></p> <p><b>TRANSISTOR</b></p> <p>Q3801 405 015 9701 TR 2SC2814-F4-TB  405 015 9909 TR 2SC2814-F5-TB  Q3802 405 014 4509 TR 2SC2412K T146 R  405 015 8704 TR 2SC2812-L6-TB</p> <p><b>INTEGRATED CIRCUIT</b></p> <p>IC3801 409 290 4307 IC TDA2545A/V4</p> <p><b>CAPACITOR</b></p> <p>C3802 403 069 9500 CERAMIC 0.01U Z 50V  C3803 403 069 9500 CERAMIC 0.01U Z 50V  C3804 403 073 9107 CERAMIC 4700P K 50V  C3805 403 166 8000 MT-POLYEST 0.33U J 63V  403 260 2904 MT-COMPO 0.33U J 50V  C3806 403 028 4102 CERAMIC 56P J 50V  C3807 403 041 8804 ELECT 10U M 16V  C3808 403 069 9500 CERAMIC 0.01U Z 50V</p> <p><b>RESISTOR</b></p> <p>R3802 401 037 5202 MT-GLAZE 100 JA 1/10W  R3803 401 037 5608 MT-GLAZE 10K JA 1/10W  R3804 401 037 9200 MT-GLAZE 1.8K JA 1/10W  R3805 401 038 3504 MT-GLAZE 330 JA 1/10W  R3806 401 038 7502 MT-GLAZE 56 JA 1/10W  R3807 401 039 0304 MT-GLAZE 820 JA 1/10W  R3808 401 038 7601 MT-GLAZE 560 JA 1/10W</p> <p><b>TRANSFORMER</b></p> <p>T3801 610 037 4522 S COIL</p> <p><b>MISCELLANEOUS</b></p> <p>K38H1 610 221 3676 TERMINAL 4P  610 012 4561 TERMINAL 4P  K38H2 610 221 3676 TERMINAL 4P  610 012 4561 TERMINAL 4P  X3801 421 006 7808 SAW F OFWJ9250M</p>		

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
<b>ASSY,PWB,AUDIO F3SAM</b>					
<b>1AA0B10E230GB</b>					
<b>TRANSISTOR</b>					
Q1251	405 014 4509	TR 2SC2412K T146 R	R1265	401 038 6307	MT-GLAZE 470 JA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R1266	401 038 0701	MT-GLAZE 2.2K JA 1/10W
Q1252	405 014 4509	TR 2SC2412K T146 R	R3451	645 008 2221	INDUCTOR,2.2U K
	405 015 8704	TR 2SC2812-L6-TB	R3461	401 037 5400	MT-GLAZE 1K JA 1/10W
Q3481	405 014 4509	TR 2SC2412K T146 R	R3462	401 037 5202	MT-GLAZE 100 JA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R3463	401 037 5608	MT-GLAZE 10K JA 1/10W
Q3482	405 014 4509	TR 2SC2412K T146 R	R3464	401 038 6505	MT-GLAZE 47K JA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R3465	401 037 5806	MT-GLAZE 1M JA 1/10W
Q3483	405 014 4509	TR 2SC2412K T146 R	R3466	401 037 5608	MT-GLAZE 10K JA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R3467	401 038 9407	MT-GLAZE 680K JA 1/10W
Q3484	405 014 4509	TR 2SC2412K T146 R	R3468	401 037 9200	MT-GLAZE 1.8K JA 1/10W
	405 015 8704	TR 2SC2812-L6-TB	R3469	401 038 3702	MT-GLAZE 33K JA 1/10W
<b>INTEGRATED CIRCUIT</b>			R3471	401 037 5202	MT-GLAZE 100 JA 1/10W
IC1251	409 009 2501	IC HD14052BP	R3472	401 037 5202	MT-GLAZE 100 JA 1/10W
	409 120 7607	IC MN4052B	R3473	401 038 3603	MT-GLAZE 3.3K JA 1/10W
	409 051 2801	IC TC4052BP	R3474	401 038 7700	MT-GLAZE 5.6K JA 1/10W
	409 059 2209	IC UPD4052BC	R3475	401 038 7700	MT-GLAZE 5.6K JA 1/10W
IC3451	409 404 3707	IC SAA7283ZP/M2	R3476	401 038 3603	MT-GLAZE 3.3K JA 1/10W
<b>CAPACITOR</b>			R3481	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C1251	403 041 8804	ELECT 10U M 16V	R3482	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C3458	403 073 3501	CERAMIC 390P K 50V	<b>COIL</b>		
C3461	403 069 9500	CERAMIC 0.01U Z 50V	L3451	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C3462	403 041 8804	ELECT 10U M 16V	L3452	645 008 2221	INDUCTOR,2.2U K
C3463	403 008 7406	CERAMIC 10P D 50V	L3454	645 008 2221	INDUCTOR,2.2U K
C3464	403 041 8804	ELECT 10U M 16V	L3455	645 008 2221	INDUCTOR,2.2U K
C3465	403 018 7403	CERAMIC 220P J 50V	L3461	645 008 1996	INDUCTOR,10U J
C3466	403 069 9500	CERAMIC 0.01U Z 50V	<b>DIODE</b>		
C3467	403 041 8804	ELECT 10U M 16V	D3461	407 169 7909	VARACTOR DI BBY31
C3468	403 069 9500	CERAMIC 0.01U Z 50V	D3462	407 004 8009	DIODE DSB015-TB
C3469	403 049 0008	ELECT 1U M 50V	<b>MISCELLANEOUS</b>		
C3471	403 069 9500	CERAMIC 0.01U Z 50V	K12A	645 004 2881	PLUG,2P
C3472	403 041 8804	ELECT 10U M 16V	K12B	645 004 2911	PLUG,5P
C3473	403 072 1607	CERAMIC 0.022U K 50V	K12D	645 004 2898	PLUG,3P
C3474	403 192 5905	CERAMIC 0.1U K 25V	K34A	645 008 3341	PLUG,10P
	403 070 0909	CERAMIC 0.1U K 50V	K34B	645 008 3341	PLUG,10P
C3475	403 026 2803	CERAMIC 47P J 50V	X3461	645 007 7449	OSC,CRYSTAL 8.192MHZ
C3476	403 026 2803	CERAMIC 47P J 50V	<b>ASSY,PWB,CRT F2RC</b>		
C3477	403 069 9500	CERAMIC 0.01U Z 50V	<b>1AA0B10E24500</b>		
C3478	403 048 6308	ELECT 0.47U M 50V	<b>TRANSISTOR</b>		
C3480	403 192 5905	CERAMIC 0.1U K 25V	Q2601	405 041 6507	TR 2SC2621-D-RA
	403 070 0909	CERAMIC 0.1U K 50V		405 041 6705	TR 2SC2621-E-RA
C3481	403 069 9500	CERAMIC 0.01U Z 50V		405 066 9903	TR 2SC2688(1)-K
C3482	403 043 9106	ELECT 47U M 16V		405 067 0008	TR 2SC2688(1)-L
C3483	403 069 9500	CERAMIC 0.01U Z 50V		405 067 0107	TR 2SC2688(1)-M
C3484	403 043 9106	ELECT 47U M 16V	Q2611	405 041 6507	TR 2SC2621-D-RA
C3485	403 049 0008	ELECT 1U M 50V		405 041 6705	TR 2SC2621-E-RA
C3486	403 049 0008	ELECT 1U M 50V		405 066 9903	TR 2SC2688(1)-K
C3487	403 069 9500	CERAMIC 0.01U Z 50V		405 067 0008	TR 2SC2688(1)-L
C3488	403 043 9106	ELECT 47U M 16V		405 067 0107	TR 2SC2688(1)-M
C3490	403 009 5708	CERAMIC 100P J 50V	Q2621	405 041 6507	TR 2SC2621-D-RA
C3491	403 130 3604	CERAMIC 0.047U K 25V		405 041 6705	TR 2SC2621-E-RA
	403 130 3109	CERAMIC 0.047U K 50V		405 066 9903	TR 2SC2688(1)-K
C3492	403 041 8804	ELECT 10U M 16V		405 067 0008	TR 2SC2688(1)-L
C3493	403 069 9500	CERAMIC 0.01U Z 50V		405 067 0107	TR 2SC2688(1)-M
C3494	403 043 9106	ELECT 47U M 16V	Q2640	406 007 1901	TR JC556A
<b>RESISTOR</b>				406 007 1802	TR JC556B
R1251	401 038 2101	MT-GLAZE 2.7K JA 1/10W		405 004 4205	TR 2SA608-E-CTV-NP
R1252	401 038 9209	MT-GLAZE 6.8K JA 1/10W		405 004 4809	TR 2SA608-F-CTV-NP
R1253	401 039 0502	MT-GLAZE 82K JA 1/10W		405 028 7909	TR 2SA608-G-CTV-NP
R1254	401 039 0502	MT-GLAZE 82K JA 1/10W	Q2651	406 007 1901	TR JC556A
R1257	401 038 6307	MT-GLAZE 470 JA 1/10W		406 007 1802	TR JC556B
R1258	401 038 0701	MT-GLAZE 2.2K JA 1/10W		405 004 4205	TR 2SA608-E-CTV-NP
R1262	401 039 0502	MT-GLAZE 82K JA 1/10W		405 004 4809	TR 2SA608-F-CTV-NP
R1264	401 039 0502	MT-GLAZE 82K JA 1/10W		405 028 7909	TR 2SA608-G-CTV-NP
<b>CAPACITOR</b>			<b>CAPACITOR</b>		
			C2601	403 074 5702	CERAMIC 560P K 50V

Ref. No.	Part No.	Deacription			Ref. No.	Part No.	Deacription		
C2611	403 074 5702	CERAMIC	560P K	50V	INTEGRATED CIRCUIT				
C2621	403 074 5702	CERAMIC	560P K	50V	IC3501	409 398 9204	IC	MM1369AD	
C2631	403 077 2708	CERAMIC	1000P P	2K	IC3531	409 316 4601	IC	TDA8424	
C2635	403 055 8401	ELECT	22U M	250V	CAPACITOR				
	403 260 0405	ELECT	22U M	250V	C3501	403 049 4204	ELECT	10U M	50V
C2651	403 201 5001	ELECT	330U M	16V	C3502	403 246 2201	MT-COMPO	0.01U J	50V
RESISTOR					C3503	403 105 9501	CERAMIC	1000P J	50V
R2601	401 018 2800	CARBON	330 JA	1/4W	C3504	403 270 2901	MT-POLYEST	0.1U K	63V
R2602	401 019 1901	CARBON	3.9K JA	1/4W		403 237 8007	MT-COMPO	0.1U J	50V
R2603	401 012 5708	CARBON	1K JA	1/4W	C3505	403 043 9106	ELECT	47U M	16V
R2604	401 065 4604	OXIDE-MT	12K JA	2W	C3506	403 049 9803	ELECT	2.2U M	50V
R2605	401 009 6602	CARBON	3.3K JA	1/2W	C3507	403 246 2201	MT-COMPO	0.01U J	50V
R2611	401 018 2800	CARBON	330 JA	1/4W	C3508	403 246 2201	MT-COMPO	0.01U J	50V
R2612	401 019 1901	CARBON	3.9K JA	1/4W	C3509	403 246 2201	MT-COMPO	0.01U J	50V
R2613	401 016 3809	CARBON	2.2K JA	1/4W	C3510	403 246 2201	MT-COMPO	0.01U J	50V
R2614	401 065 4604	OXIDE-MT	12K JA	2W	C3511	403 105 9501	CERAMIC	1000P J	50V
R2615-B	401 009 6602	CARBON	3.3K JA	1/2W	C3512	403 270 2901	MT-POLYEST	0.1U K	63V
R2621	401 018 2800	CARBON	330 JA	1/4W		403 237 8007	MT-COMPO	0.1U J	50V
R2622	401 019 1901	CARBON	3.9K JA	1/4W	C3513	403 246 2201	MT-COMPO	0.01U J	50V
R2623	401 015 2704	CARBON	1.8K JA	1/4W	C3514	403 049 4204	ELECT	10U M	50V
R2624	401 065 4604	OXIDE-MT	12K JA	2W	C3515	403 042 2405	ELECT	100U M	16V
R2625-B	401 009 6602	CARBON	3.3K JA	1/2W	C3516	403 068 0409	CERAMIC	0.1U Z	25V
R2627	401 020 0801	CARBON	470 JA	1/4W		403 070 2606	CERAMIC	0.1U Z	50V
R2641	401 020 2003	CARBON	4.7K JA	1/4W	C3518	403 051 3103	ELECT	47U M	50V
R2642	401 018 3807	CARBON	3.3K JA	1/4W	C3521	403 049 4204	ELECT	10U M	50V
R2644	401 017 0807	CARBON	270 JA	1/4W	C3522	403 049 4204	ELECT	10U M	50V
R2652	401 012 7009	CARBON	10K JA	1/4W	C3531	403 049 4204	ELECT	10U M	50V
R2653	401 012 7009	CARBON	10K JA	1/4W	C3532	403 042 2405	ELECT	100U M	16V
VARIABLE RESISTOR					C3533	403 049 4204	ELECT	10U M	50V
VR2601	645 003 5722	VR,SEMI,4.7K N			C3534	403 068 0409	CERAMIC	0.1U Z	25V
VR2602	645 003 5647	VR,SEMI,1K N				403 070 2606	CERAMIC	0.1U Z	50V
VR2611	645 003 5722	VR,SEMI,4.7K N			C3535	403 068 3202	CERAMIC	0.033U K	25V
VR2612	645 003 5647	VR,SEMI,1K N				403 073 1200	CERAMIC	0.033U K	50V
VR2621	645 003 5722	VR,SEMI,4.7K N			C3536	403 074 7607	CERAMIC	5600P K	50V
COIL					C3537	403 074 7607	CERAMIC	5600P K	50V
L2601	645 008 0012	INDUCTOR,330U K			C3538	403 068 3202	CERAMIC	0.033U K	25V
L2611	645 008 0012	INDUCTOR,330U K				403 073 1200	CERAMIC	0.033U K	50V
L2621	645 008 0012	INDUCTOR,330U K			C3595	403 042 2405	ELECT	100U M	16V
DIODE					RESISTOR				
D2601	407 013 1206	DIODE 1S1555			R3501	401 037 5608	MT-GLAZE	10K JA	1/10W
D2611	407 013 1206	DIODE 1S1555			R3502	401 038 5300	MT-GLAZE	39K JA	1/10W
D2621	407 013 1206	DIODE 1S1555			R3503	401 180 0406	MT-GLAZE	7.5K FA	1/10W
D2651	407 013 1206	DIODE 1S1555			R3505	401 038 2101	MT-GLAZE	2.7K JA	1/10W
MISCELLANEOUS					R3506	401 038 2101	MT-GLAZE	2.7K JA	1/10W
K26M	645 008 4058	TERMINAL,PLUG			R3508	401 038 5102	MT-GLAZE	3.9K JA	1/10W
K26P	645 004 2911	PLUG,5P			R3511	401 112 7602	MT-GLAZE	1K FA	1/10W
K26Q	645 004 2898	PLUG,3P			R3512	401 092 2406	MT-GLAZE	2.2K FA	1/10W
ΔK2601-B	610 233 7990	CRT SOCKET			R3513	401 112 7602	MT-GLAZE	1K FA	1/10W
ASSY,PWB,Q-SOUND F3SAM					R3514	401 092 2406	MT-GLAZE	2.2K FA	1/10W
1AA0B10E37800					R3521	401 037 5608	MT-GLAZE	10K JA	1/10W
TRANSISTOR					R3522	401 038 2101	MT-GLAZE	2.7K JA	1/10W
Q3505	405 014 4509	TR 2SC2412K T146 R			R3523	401 038 0701	MT-GLAZE	2.2K JA	1/10W
	405 015 8704	TR 2SC2812-L6-TB			R3524	401 037 5400	MT-GLAZE	1K JA	1/10W
Q3506	405 014 4509	TR 2SC2412K T146 R			R3525	401 037 5608	MT-GLAZE	10K JA	1/10W
	405 015 8704	TR 2SC2812-L6-TB			R3526	401 038 2101	MT-GLAZE	2.7K JA	1/10W
Q3521	405 014 4509	TR 2SC2412K T146 R			R3527	401 038 0701	MT-GLAZE	2.2K JA	1/10W
	405 015 8704	TR 2SC2812-L6-TB			R3528	401 037 5400	MT-GLAZE	1K JA	1/10W
Q3522	405 014 4509	TR 2SC2412K T146 R			R3531	401 037 5202	MT-GLAZE	100 JA	1/10W
	405 015 8704	TR 2SC2812-L6-TB			R3532	401 037 5202	MT-GLAZE	100 JA	1/10W
Q3531	405 014 4509	TR 2SC2412K T146 R			R3533	401 037 5202	MT-GLAZE	100 JA	1/10W
	405 015 8704	TR 2SC2812-L6-TB			R3534	401 037 7909	MT-GLAZE	1.5K JA	1/10W
Q3532	405 014 4509	TR 2SC2412K T146 R			R3535	401 037 5202	MT-GLAZE	100 JA	1/10W
	405 015 8704	TR 2SC2812-L6-TB			R3536	401 037 7909	MT-GLAZE	1.5K JA	1/10W
DIODE					R3551	401 022 0809	CARBON	68 JA	1/4W
D3551	407 053 9903	ZENER DIODE RD10EB1			MISCELLANEOUS				
	407 163 9107	ZENER DIODE UZ-10BCA			K35C	645 004 2911	PLUG,5P		

Ref. No.	Part No.	Description
K35D	645 004 2898	PLUG,3P
K35M	610 221 3669	TERMINAL 6P
K35S	645 004 2898	PLUG,3P
K35U	645 004 2881	PLUG,2P

ASSY,PWB,MAIN F3JAV  
1AA0B10E38000

TRANSISTOR

Q001	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1001	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q1002	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1003	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1004	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1005	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1041	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1042	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q1043	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1201	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1202	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q1203	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP

Ref. No.	Part No.	Description
Q1204	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q121	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q151	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q152	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q153	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q154	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q161	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q162	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q171	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q2001	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q201	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q202	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q431	405 011 1808	TR 2SC1627-0
	405 011 1907	TR 2SC1627-Y
	405 013 6801	TR 2SC2274-E
	405 013 7006	TR 2SC2274-F
	405 022 6809	TR 2SD1651-CTV-YB
Q501	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q611	406 007 1901	TR JC556A
	406 007 1802	TR JC556B

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q612	405 004 4205	TR 2SA608-E-CTV-NP	CAPACITOR	409 281 8307	IC 24C02A/P
	405 004 4809	TR 2SA608-F-CTV-NP		409 333 3700	IC 24LC02B/P
	405 028 7909	TR 2SA608-G-CTV-NP			
	405 058 0208	TR 2SC3807-R-CTV-YA			
	405 018 9203	TR 2SC3895-T-CTV-YB			
Q641	406 007 2106	TR JC546A	C001	403 068 0409	CERAMIC 0.1U Z 25V
	406 007 2007	TR JC546B		403 070 2606	CERAMIC 0.1U Z 50V
	405 019 1909	TR 2SC536-E-NP	C002	403 070 9803	CERAMIC 0.015U K 50V
	405 019 2708	TR 2SC536-F-NP	C003	403 068 0409	CERAMIC 0.1U Z 25V
	405 019 3804	TR 2SC536-G-NP		403 070 2606	CERAMIC 0.1U Z 50V
Q652	405 023 4903	TR 2SD400-D-MP	C004	403 070 9803	CERAMIC 0.015U K 50V
	405 023 5009	TR 2SD400-E-MP	C005	403 046 3507	ELECT 33U M 25V
	405 023 5306	TR 2SD400-F-MP	C006	403 046 3507	ELECT 33U M 25V
Q681	405 059 9804	TR 2SD1913-Q-RA	C007	403 270 3403	MT-POLYEST 0.22U K 63V
	405 059 9903	TR 2SD1913-R-RA		403 237 7901	MT-COMPO 0.22U J 50V
	405 060 0005	TR 2SD1913-S-RA	C008	403 270 3403	MT-POLYEST 0.22U K 63V
Q682	406 007 1901	TR JC556A		403 237 7901	MT-COMPO 0.22U J 50V
	406 007 1802	TR JC556B	C009	403 270 3403	MT-POLYEST 0.22U K 63V
	405 004 4205	TR 2SA608-E-CTV-NP		403 237 7901	MT-COMPO 0.22U J 50V
	405 004 4809	TR 2SA608-F-CTV-NP	C010	403 270 3403	MT-POLYEST 0.22U K 63V
	405 028 7909	TR 2SA608-G-CTV-NP		403 237 7901	MT-COMPO 0.22U J 50V
Q801	405 118 4207	TR PH2369	C011	403 042 4805	ELECT 1000U M 16V
Q835	406 007 2106	TR JC546A	C012	403 042 4805	ELECT 1000U M 16V
	406 007 2007	TR JC546B	C013	403 069 9500	CERAMIC 0.01U Z 50V
	405 019 1909	TR 2SC536-E-NP	C014	403 069 9500	CERAMIC 0.01U Z 50V
	405 019 2708	TR 2SC536-F-NP	C015	403 047 3100	ELECT 47U M 25V
	405 019 3804	TR 2SC536-G-NP	C016	403 085 4008	NP-ELECT 10U M 16V
Q861	406 007 1901	TR JC556A	C017	403 085 4008	NP-ELECT 10U M 16V
	406 007 1802	TR JC556B	C021	403 052 8503	ELECT 1000U M 35V
	405 004 4205	TR 2SA608-E-CTV-NP	C023	403 069 9500	CERAMIC 0.01U Z 50V
	405 004 4809	TR 2SA608-F-CTV-NP	C024	403 069 9500	CERAMIC 0.01U Z 50V
	405 028 7909	TR 2SA608-G-CTV-NP	C1001	403 069 1702	CERAMIC 1000P K 50V
Q871	406 007 2106	TR JC546A	C1002	403 041 8804	ELECT 10U M 16V
	406 007 2007	TR JC546B	C1003	403 009 5708	CERAMIC 100P J 50V
	405 019 1909	TR 2SC536-E-NP	C1004	403 130 3109	CERAMIC 0.047U K 50V
	405 019 2708	TR 2SC536-F-NP	C1005	403 069 1702	CERAMIC 1000P K 50V
	405 019 3804	TR 2SC536-G-NP	C1006	403 041 8804	ELECT 10U M 16V
Q872	406 007 2106	TR JC546A	C1007	403 009 5708	CERAMIC 100P J 50V
	406 007 2007	TR JC546B	C1008	403 130 3109	CERAMIC 0.047U K 50V
	405 019 1909	TR 2SC536-E-NP	C1009	403 041 8804	ELECT 10U M 16V
	405 019 2708	TR 2SC536-F-NP	C101	403 194 4609	ELECT 470U M 16V
	405 019 3804	TR 2SC536-G-NP	C102	403 043 9106	ELECT 47U M 16V
Q873	406 007 2106	TR JC546A	C1021	403 069 1702	CERAMIC 1000P K 50V
	406 007 2007	TR JC546B	C1022	403 041 8804	ELECT 10U M 16V
	405 019 1909	TR 2SC536-E-NP	C1023	403 009 5708	CERAMIC 100P J 50V
	405 019 2708	TR 2SC536-F-NP	C1024	403 041 9405	ELECT 10U M 16V
	405 019 3804	TR 2SC536-G-NP	C1025	403 069 1702	CERAMIC 1000P K 50V
Q874	406 007 2106	TR JC546A	C1026	403 041 8804	ELECT 10U M 16V
	406 007 2007	TR JC546B	C1027	403 009 5708	CERAMIC 100P J 50V
	405 019 1909	TR 2SC536-E-NP	C1028	403 041 9405	ELECT 10U M 16V
	405 019 2708	TR 2SC536-F-NP	C1029	403 041 8804	ELECT 10U M 16V
	405 019 3804	TR 2SC536-G-NP	C1031	403 014 9203	CERAMIC 180P J 50V
			C104	403 043 9106	ELECT 47U M 16V
			C1041	403 041 8804	ELECT 10U M 16V
			C106	403 049 0008	ELECT 1U M 50V
			C108	403 027 1201	CERAMIC 5P C 50V
			C109	403 027 1201	CERAMIC 5P C 50V
			C110	403 033 4500	CERAMIC 82P J 50V
			C1101	403 041 8804	ELECT 10U M 16V
			C1102	403 009 5708	CERAMIC 100P J 50V
			C1103	403 069 1702	CERAMIC 1000P K 50V
			C1104	403 041 8804	ELECT 10U M 16V
			C1105	403 009 5708	CERAMIC 100P J 50V
			C1106	403 069 1702	CERAMIC 1000P K 50V
			C1107	403 041 8804	ELECT 10U M 16V
			C1108	403 014 9203	CERAMIC 180P J 50V
			C1109	403 008 7406	CERAMIC 10P D 50V
			C114	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
			C117	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
			C1201	403 041 8804	ELECT 10U M 16V
			C1202	403 041 8804	ELECT 10U M 16V
			C1203	403 069 8305	CERAMIC 0.01U Z 50V
			C121	403 068 0409	CERAMIC 0.1U Z 25V
INTEGRATED CIRCUIT					
IC001	409 301 4906	IC TDA7263M			
IC1201	409 018 7603	IC LA7016			
IC1202	409 120 3401	IC LA7221			
IC201	409 380 8703	IC TDA8361/N5			
IC271	409 291 0605	IC TDA4661/V2			
	409 322 0505	IC TDA4662/V1			
IC501	409 183 5008	IC LA7832			
IC651	409 143 3402	IC AN78M12 LB			
	409 365 2900	IC BA178M12T			
	409 269 1207	IC L78M12CV			
	409 366 1803	IC MC78M12CT			
IC652	409 362 7403	IC AN78M08 LB			
	409 365 2801	IC BA178M08T			
	409 285 5203	IC L78M08-RA			
	409 269 1108	IC L78M08CV			
	409 366 1704	IC MC78M08CT			
IC801	410 276 7205	IC SAA5296ZP/037			
IC802	409 247 7702	IC ST24C02AB1			



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	403 070 2606	CERAMIC 0.1U Z 50V	C363	403 042 2405	ELECT 100U M 16V
C131	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	<u>Δ</u> C421	404 046 8400	MT-POLYPRO 8200P J 1.5K
C132	403 069 1702	CERAMIC 1000P K 50V	C425	403 165 7301	CERAMIC 330P K 3K
C133	403 069 9500	CERAMIC 0.01U Z 50V		403 287 3601	CERAMIC 330P K 3K
C134	403 049 9803	ELECT 2.2U M 50V		403 232 3007	CERAMIC 330P K 3K
C135	403 068 0409	CERAMIC 0.1U Z 25V	C430	403 075 7101	CERAMIC 1000P K 500V
	403 070 2606	CERAMIC 0.1U Z 50V	C432	403 075 7101	CERAMIC 1000P K 500V
C136	403 194 4609	ELECT 470U M 16V	C433	403 076 3102	CERAMIC 3900P K 500V
C137	403 068 0409	CERAMIC 0.1U Z 25V	C434	403 229 1207	ELECT 47U M 35V
	403 070 2606	CERAMIC 0.1U Z 50V	C437	403 066 6106	MT-POLYEST 0.47U J 250V
C138	403 069 9500	CERAMIC 0.01U Z 50V	C438	403 059 3808	POLYESTER 2200P K 50V
C141	403 028 4409	CERAMIC 56P J 50V		403 179 2606	POLYESTER 2200P K 50V
C142	403 068 0409	CERAMIC 0.1U Z 25V	<u>Δ</u> C441	403 216 7601	POLYPRO 0.36U J 200V
	403 070 2606	CERAMIC 0.1U Z 50V	C445	403 049 4204	ELECT 10U M 50V
C143	403 073 4201	CERAMIC 3900P K 50V	C481	403 076 1405	CERAMIC 2700P K 500V
C146	403 010 8507	CERAMIC 12P J 50V	C482	403 159 7409	MT-POLYEST 0.1U K 250V
C151	403 022 8205	CERAMIC 33P J 50V	C501	403 054 1502	ELECT 470U M 35V
C152	403 028 4102	CERAMIC 56P J 50V	C502	403 053 2104	ELECT 220U M 35V
C161	403 009 5708	CERAMIC 100P J 50V	C503	403 024 2102	CERAMIC 39P J 50V
C162	403 068 0409	CERAMIC 0.1U Z 25V	C504	403 069 9500	CERAMIC 0.01U Z 50V
	403 070 2606	CERAMIC 0.1U Z 50V	C505	403 075 7101	CERAMIC 1000P K 500V
C163	403 041 8804	ELECT 10U M 16V	C506	403 183 7901	MT-POLYEST 0.1U K 100V
C171	403 270 2901	MT-POLYEST 0.1U K 63V		403 256 4806	MT-COMPO 0.1U J 100V
	403 237 8007	MT-COMPO 0.1U J 50V	C511	403 188 1201	MT-POLYEST 0.15U K 100V
C1901	403 069 1702	CERAMIC 1000P K 50V		403 313 7603	MT-COMPO 0.15U J 100V
C200	403 068 0409	CERAMIC 0.1U Z 25V	C512	403 148 0404	ELECT 1000U M 25V
	403 070 2606	CERAMIC 0.1U Z 50V	C513	403 049 4204	ELECT 10U M 50V
C2001	403 068 0409	CERAMIC 0.1U Z 25V	C514	403 049 4204	ELECT 10U M 50V
	403 070 2606	CERAMIC 0.1U Z 50V	C600	403 076 4000	CERAMIC 4700P K 500V
C2002	403 068 0409	CERAMIC 0.1U Z 25V	<u>Δ</u> C601	404 056 1408	MT-POLYEST 0.1U M 250V
	403 070 2606	CERAMIC 0.1U Z 50V		404 074 6508	MT-COMPO 0.1U K 250V
C2003	403 068 0409	CERAMIC 0.1U Z 25V	<u>Δ</u> C602	404 056 1408	MT-POLYEST 0.1U M 250V
	403 070 2606	CERAMIC 0.1U Z 50V		404 074 6508	MT-COMPO 0.1U K 250V
C201	403 014 3409	CERAMIC 18P J 50V	C603	403 312 8205	CERAMIC 1000P K 1K
C202	403 270 2901	MT-POLYEST 0.1U K 63V		403 076 7100	CERAMIC 1000P M 1K
	403 237 8007	MT-COMPO 0.1U J 50V	C604	403 312 8205	CERAMIC 1000P K 1K
C203	403 073 9107	CERAMIC 4700P K 50V		403 076 7100	CERAMIC 1000P M 1K
C204	403 068 0409	CERAMIC 0.1U Z 25V	C605	403 312 8205	CERAMIC 1000P K 1K
	403 070 2606	CERAMIC 0.1U Z 50V		403 076 7100	CERAMIC 1000P M 1K
C205	403 068 0409	CERAMIC 0.1U Z 25V	C606	403 312 8205	CERAMIC 1000P K 1K
	403 070 2606	CERAMIC 0.1U Z 50V		403 076 7100	CERAMIC 1000P M 1K
C206	403 068 0409	CERAMIC 0.1U Z 25V	C607	404 047 1707	ELECT 220U M 400V
	403 070 2606	CERAMIC 0.1U Z 50V		404 069 5905	ELECT 220U M 400V
C207	403 068 0409	CERAMIC 0.1U Z 25V	C613	403 061 8303	POLYESTER 4700P K 50V
	403 070 2606	CERAMIC 0.1U Z 50V		403 179 1104	POLYESTER 4700P K 50V
C208	403 068 0409	CERAMIC 0.1U Z 25V	C614	403 270 2901	MT-POLYEST 0.1U K 63V
	403 070 2606	CERAMIC 0.1U Z 50V		403 237 8007	MT-COMPO 0.1U J 50V
C209	403 069 1702	CERAMIC 1000P K 50V	C615	403 058 2604	POLYESTER 0.015U J 50V
C212	403 049 9803	ELECT 2.2U M 50V		403 179 3207	POLYESTER 0.015U J 50V
C215	403 270 3908	MT-POLYEST 0.47U K 63V	C616	403 165 8407	CERAMIC 680P K 2K
	403 256 0808	MT-COMPO 0.47U J 50V		403 232 2109	CERAMIC 680P K 2K
C222	404 045 6605	NP-ELECT 2.2U M 50V	C617	403 060 8403	POLYESTER 0.033U K 50V
C226	403 138 1602	ELECT 1U M 100V		403 179 1609	POLYESTER 0.033U K 50V
C231	403 068 0409	CERAMIC 0.1U Z 25V	<u>Δ</u> C631	404 060 6505	CERAMIC 2200P M 400V
	403 070 2606	CERAMIC 0.1U Z 50V		404 071 4200	CERAMIC 2200P M 400V
C232	403 014 9203	CERAMIC 180P J 50V		404 060 6604	CERAMIC 2200P M 400V
C233	403 068 0409	CERAMIC 0.1U Z 25V	C640	403 069 8305	CERAMIC 0.01U Z 50V
	403 070 2606	CERAMIC 0.1U Z 50V	C641	403 165 9305	CERAMIC 680P K 1K
C234	403 013 3004	CERAMIC 150P J 50V		403 262 4401	CERAMIC 680P K 1K
C235	403 008 7406	CERAMIC 10P D 50V	C642A	404 042 4505	ELECT 220U M 160V
C271	403 069 1702	CERAMIC 1000P K 50V	C643	403 148 2002	ELECT 470U M 35V
C272	403 069 1702	CERAMIC 1000P K 50V	C644	403 148 0701	ELECT 2200U M 25V
C273	403 069 9500	CERAMIC 0.01U Z 50V	C645	403 158 1309	ELECT 2200U M 35V
C274	403 041 8804	ELECT 10U M 16V	C651	403 148 0305	ELECT 470U M 16V
C351	403 270 2901	MT-POLYEST 0.1U K 63V	C652	403 069 9500	CERAMIC 0.01U Z 50V
	403 237 8007	MT-COMPO 0.1U J 50V	C653	403 043 9106	ELECT 47U M 16V
C352	403 270 3809	MT-POLYEST 0.047U K 63V	C655	403 126 4400	ELECT 100U M 10V
	403 225 2703	MT-COMPO 0.047U J 50V	C661	403 051 0607	ELECT 4.7U M 50V
C353	403 073 9107	CERAMIC 4700P K 50V	C681	403 190 4702	ELECT 1000U M 25V
C354	403 049 0008	ELECT 1U M 50V	C682	403 069 9500	CERAMIC 0.01U Z 50V
C361	403 072 5605	CERAMIC 2700P K 50V	C683	403 147 9606	ELECT 1000U M 10V
C362	403 069 9500	CERAMIC 0.01U Z 50V	C684	403 050 6600	ELECT 3.3U M 50V

Ref. No.	Part No.	Deacription	Ref. No.	Part No.	Deacription
C802	403 270 3809	MT-POLYEST 0.047U K 63V	R1031	401 038 7601	MT-GLAZE 560 JA 1/10W
	403 225 2703	MT-COMPO 0.047U J 50V	R1032	401 038 7601	MT-GLAZE 560 JA 1/10W
C812	403 049 0008	ELECT 1U M 50V	R1033	401 038 7601	MT-GLAZE 560 JA 1/10W
C814	403 049 0008	ELECT 1U M 50V	R1041	401 038 2200	MT-GLAZE 27K JA 1/10W
C816	403 046 9905	ELECT 4.7U M 25V	R1042	401 037 5608	MT-GLAZE 10K JA 1/10W
C818	403 046 9905	ELECT 4.7U M 25V	R1043	401 039 0304	MT-GLAZE 820 JA 1/10W
C841	403 069 9500	CERAMIC 0.01U Z 50V	R1044	401 039 0304	MT-GLAZE 820 JA 1/10W
C860	403 022 8205	CERAMIC 33P J 50V	R1045	401 037 5400	MT-GLAZE 1K JA 1/10W
C861	403 061 7504	POLYESTER 4700P J 50V	R1046	401 038 0701	MT-GLAZE 2.2K JA 1/10W
	403 179 1203	POLYESTER 4700P J 50V	R1047	401 037 6704	MT-GLAZE 1.2K JA 1/10W
C871	403 068 0409	CERAMIC 0.1U Z 25V	R1051	401 037 8104	MT-GLAZE 150K JA 1/10W
	403 070 2606	CERAMIC 0.1U Z 50V	R1052	401 037 5707	MT-GLAZE 100K JA 1/10W
C872	403 043 9106	ELECT 47U M 16V	R1053	401 037 6704	MT-GLAZE 1.2K JA 1/10W
C873	403 018 0503	CERAMIC 22P J 50V	R1054	401 037 8104	MT-GLAZE 150K JA 1/10W
C874	403 018 0503	CERAMIC 22P J 50V	R1055	401 037 5707	MT-GLAZE 100K JA 1/10W
C875	403 068 0409	CERAMIC 0.1U Z 25V	R1056	401 037 6704	MT-GLAZE 1.2K JA 1/10W
	403 070 2606	CERAMIC 0.1U Z 50V	R108	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C878	403 073 9107	CERAMIC 4700P K 50V	R110	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C879	403 068 0409	CERAMIC 0.1U Z 25V	R1101	401 027 6608	CARBON 75 JA 1/6W
	403 070 2606	CERAMIC 0.1U Z 50V	R1102	401 037 7800	MT-GLAZE 150 JA 1/10W
C881	403 069 9500	CERAMIC 0.01U Z 50V	R1103	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C882	403 041 8804	ELECT 10U M 16V	R1104	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C883	403 018 0503	CERAMIC 22P J 50V	R1105	401 037 5707	MT-GLAZE 100K JA 1/10W
C884	403 018 0503	CERAMIC 22P J 50V	R1106	401 037 5707	MT-GLAZE 100K JA 1/10W
			R1111	401 037 5608	MT-GLAZE 10K JA 1/10W
RESISTOR			R1200	401 022 1905	CARBON 680 JA 1/4W
R001	401 037 5400	MT-GLAZE 1K JA 1/10W	R1201	401 038 6505	MT-GLAZE 47K JA 1/10W
R002	401 037 9200	MT-GLAZE 1.8K JA 1/10W	R1202	401 038 6505	MT-GLAZE 47K JA 1/10W
R003	401 037 5400	MT-GLAZE 1K JA 1/10W	R1203	401 037 5608	MT-GLAZE 10K JA 1/10W
R004	401 037 9200	MT-GLAZE 1.8K JA 1/10W	R1204	401 038 2200	MT-GLAZE 27K JA 1/10W
R005	401 019 9600	CARBON 47 JA 1/4W	R1205	401 038 2200	MT-GLAZE 27K JA 1/10W
R006	401 014 4105	CARBON 1.5K JA 1/4W	R1206	401 038 6505	MT-GLAZE 47K JA 1/10W
R007	401 019 9600	CARBON 47 JA 1/4W	R1207	401 024 7400	CARBON 10K JA 1/6W
R008	401 014 4105	CARBON 1.5K JA 1/4W	R1208	401 038 0800	MT-GLAZE 22K JA 1/10W
R009	401 010 1504	CARBON 4.7 JA 1/2W	R1209	401 024 7400	CARBON 10K JA 1/6W
R010	401 010 1504	CARBON 4.7 JA 1/2W	R121	401 027 0309	CARBON 47K JA 1/6W
R011	401 007 7601	CARBON 150 JA 1/2W	R131	401 038 0909	MT-GLAZE 220K JA 1/10W
R012	401 007 7601	CARBON 150 JA 1/2W	R132	401 038 0909	MT-GLAZE 220K JA 1/10W
R013	401 037 6704	MT-GLAZE 1.2K JA 1/10W	R133	401 037 9101	MT-GLAZE 180 JA 1/10W
R014	401 025 7409	CARBON 220 JA 1/6W	R134	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R015	401 037 5400	MT-GLAZE 1K JA 1/10W	R135	401 038 6505	MT-GLAZE 47K JA 1/10W
R016	401 038 6505	MT-GLAZE 47K JA 1/10W	R137	401 037 5202	MT-GLAZE 100 JA 1/10W
R017	401 037 5608	MT-GLAZE 10K JA 1/10W	R138	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R100	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R141	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R1001	401 038 7601	MT-GLAZE 560 JA 1/10W	R150	401 024 7004	CARBON 1K JA 1/6W
R1002	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R151	401 022 1905	CARBON 680 JA 1/4W
R1003	401 038 7601	MT-GLAZE 560 JA 1/10W	R152	401 026 3905	CARBON 330 JA 1/6W
R1004	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R153	401 037 5400	MT-GLAZE 1K JA 1/10W
R1005	401 027 6608	CARBON 75 JA 1/6W	R154	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1006	401 038 5300	MT-GLAZE 39K JA 1/10W	R155	401 037 5400	MT-GLAZE 1K JA 1/10W
R1007	401 038 3702	MT-GLAZE 33K JA 1/10W	R156	401 037 5400	MT-GLAZE 1K JA 1/10W
R1008	401 027 6608	CARBON 75 JA 1/6W	R157	401 039 0908	MT-GLAZE 910 JA 1/10W
R1009	401 027 6608	CARBON 75 JA 1/6W	R158	401 037 5400	MT-GLAZE 1K JA 1/10W
R101	401 038 6208	MT-GLAZE 47 JA 1/10W	R159	401 022 1905	CARBON 680 JA 1/4W
R1010	401 027 6608	CARBON 75 JA 1/6W	R161	401 026 3905	CARBON 330 JA 1/6W
R1011	401 037 5202	MT-GLAZE 100 JA 1/10W	R162	401 037 9101	MT-GLAZE 180 JA 1/10W
R1012	401 027 6608	CARBON 75 JA 1/6W	R163	401 038 6505	MT-GLAZE 47K JA 1/10W
R1013	401 024 6700	CARBON 100 JA 1/6W	R164	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1014	401 027 6608	CARBON 75 JA 1/6W	R165	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1015	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R166	401 024 7004	CARBON 1K JA 1/6W
R1016	401 019 1000	CARBON 390 JA 1/4W	R171	401 038 6307	MT-GLAZE 470 JA 1/10W
R1017	401 024 7400	CARBON 10K JA 1/6W	R172	401 025 7409	CARBON 220 JA 1/6W
R1018	401 038 3504	MT-GLAZE 330 JA 1/10W	R173	401 025 7409	CARBON 220 JA 1/6W
R1021	401 038 7601	MT-GLAZE 560 JA 1/10W	R1900	401 037 5707	MT-GLAZE 100K JA 1/10W
R1022	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R1901	401 038 0800	MT-GLAZE 22K JA 1/10W
R1023	401 038 7601	MT-GLAZE 560 JA 1/10W	R1901A	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1024	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R1902	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1025	401 038 5300	MT-GLAZE 39K JA 1/10W	R1902A	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1026	401 038 3702	MT-GLAZE 33K JA 1/10W	R1903	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1027	401 027 6608	CARBON 75 JA 1/6W	R1903A	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1028	401 027 6608	CARBON 75 JA 1/6W	R1904	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1029	401 025 1308	CARBON 150 JA 1/6W	R1905	401 038 0701	MT-GLAZE 2.2K JA 1/10W

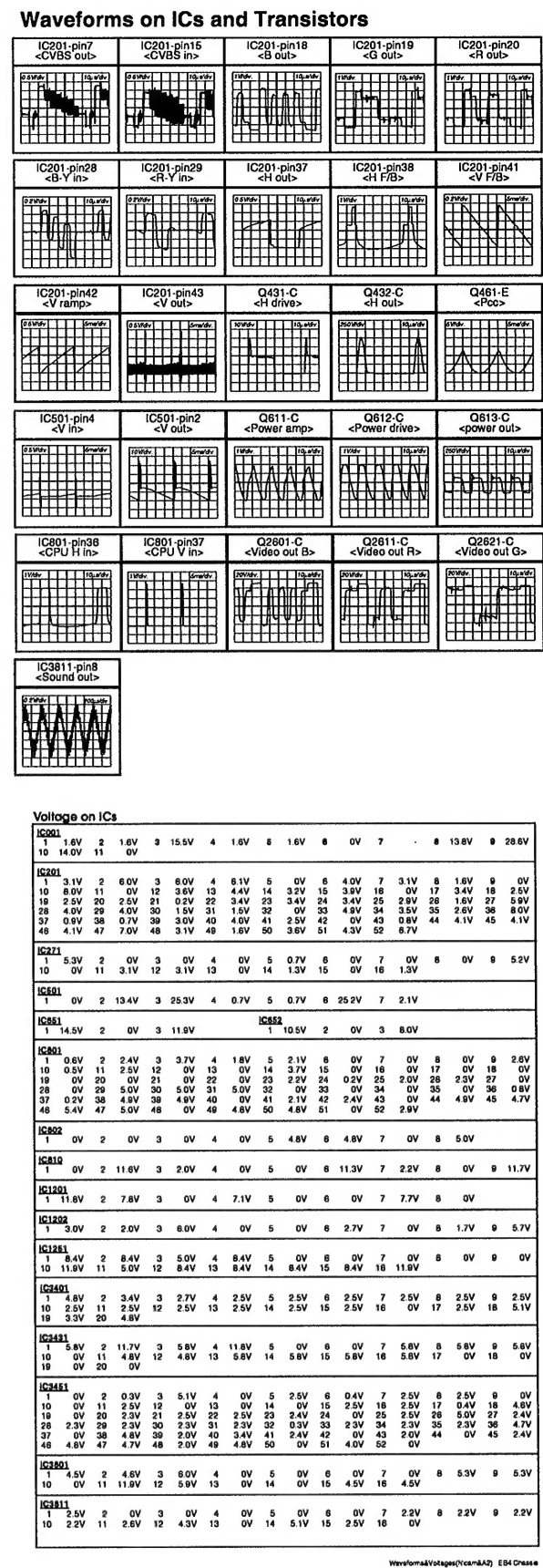
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1906	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R619	401 016 1508	CARBON 22 JA 1/4W
R1907	401 037 5608	MT-GLAZE 10K JA 1/10W	R620	401 007 5805	CARBON 120K JA 1/2W
R1908	401 038 9001	MT-GLAZE 680 JA 1/10W	R621	401 007 5805	CARBON 120K JA 1/2W
R1909	401 037 7909	MT-GLAZE 1.5K JA 1/10W	R622	401 014 5201	CARBON 15K JA 1/4W
R1911	401 038 6307	MT-GLAZE 470 JA 1/10W	R623	401 025 7805	CARBON 2.2K JA 1/6W
R1921	401 037 6605	MT-GLAZE 120 JA 1/10W	R624	401 068 6902	OXIDE-MT 56 JA 2W
R1922	401 038 5003	MT-GLAZE 390 JA 1/10W	R625	401 067 8204	OXIDE-MT 39 JA 2W
R1924	401 027 5502	CARBON 6.8K JA 1/6W	R626	401 016 3304	CARBON 2.2K GA 1/4W
R2001	401 038 2200	MT-GLAZE 27K JA 1/10W	ΔR631	402 000 8305	SOLID 5.6M KA 1/2W
R2002	401 037 5608	MT-GLAZE 10K JA 1/10W	ΔR632	402 000 8305	SOLID 5.6M KA 1/2W
R2004	401 037 7800	MT-GLAZE 150 JA 1/10W	R641	401 012 8105	CARBON 100K JA 1/4W
R2005	401 024 9701	CARBON 12K JA 1/6W	R642	401 026 9907	CARBON 4.7K JA 1/6W
R201	401 039 0403	MT-GLAZE 8.2K JA 1/10W	R643	401 014 6109	CARBON 150K JA 1/4W
R202	401 037 5707	MT-GLAZE 100K JA 1/10W	R644	401 010 4307	CARBON 47K JA 1/2W
R203	401 024 6700	CARBON 100 JA 1/6W	R645	401 025 8208	CARBON 22K JA 1/6W
R204	401 024 6700	CARBON 100 JA 1/6W	R646	402 067 3305	WIRE WOUND 4.7 KA 5W
R205	401 024 6700	CARBON 100 JA 1/6W		402 075 5704	WIRE WOUND 4.7 KA 5W
R206	401 037 5202	MT-GLAZE 100 JA 1/10W	R652	401 069 5607	OXIDE-MT 8.2 JA 2W
R207	401 037 5202	MT-GLAZE 100 JA 1/10W	R653	401 067 8204	OXIDE-MT 39 JA 2W
R208	401 037 5202	MT-GLAZE 100 JA 1/10W	R655	401 065 5809	OXIDE-MT 15 JA 2W
R212	401 027 5502	CARBON 6.8K JA 1/6W	R656	401 026 9600	CARBON 470 JA 1/6W
R213	401 037 8005	MT-GLAZE 15K JA 1/10W	R661	401 065 8503	OXIDE-MT 15K JA 2W
R214	401 037 5202	MT-GLAZE 100 JA 1/10W	R681	401 008 1608	CARBON 1.8K JA 1/2W
R215	401 038 3702	MT-GLAZE 33K JA 1/10W	R682	401 069 1708	OXIDE-MT 68 JA 2W
R216	401 025 8208	CARBON 22K JA 1/6W	R684	401 027 8602	CARBON 8.2K JA 1/6W
R217	401 025 8208	CARBON 22K JA 1/6W	R685	401 025 8208	CARBON 22K JA 1/6W
R218	401 038 7809	MT-GLAZE 56K JA 1/10W	R800	401 025 7805	CARBON 2.2K JA 1/6W
R223	401 014 6109	CARBON 150K JA 1/4W	R801	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R224	401 024 7004	CARBON 1K JA 1/6W	R802	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R226	401 026 7408	CARBON 39K JA 1/6W	R803	401 037 5707	MT-GLAZE 100K JA 1/10W
R227	401 024 7400	CARBON 10K JA 1/6W	R804	401 025 8208	CARBON 22K JA 1/6W
R231	401 037 7800	MT-GLAZE 150 JA 1/10W	R806	401 024 7400	CARBON 10K JA 1/6W
R232	401 037 7800	MT-GLAZE 150 JA 1/10W	R807	401 027 5502	CARBON 6.8K JA 1/6W
R271	401 024 6700	CARBON 100 JA 1/6W	R811	401 025 7805	CARBON 2.2K JA 1/6W
R272	401 024 9008	CARBON 120 JA 1/6W	R812	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R351	401 037 5202	MT-GLAZE 100 JA 1/10W	R813	401 026 4605	CARBON 33K JA 1/6W
R352	401 037 5806	MT-GLAZE 1M JA 1/10W	R815	401 024 6700	CARBON 100 JA 1/6W
R353	401 038 0909	MT-GLAZE 220K JA 1/10W	R816	401 037 5608	MT-GLAZE 10K JA 1/10W
R356	401 037 5202	MT-GLAZE 100 JA 1/10W	R817	401 027 8602	CARBON 8.2K JA 1/6W
R357	401 037 5618	MT-GLAZE 10K JA 1/10W	R818	401 038 9308	MT-GLAZE 68K JA 1/10W
R361	401 038 5409	MT-GLAZE 390K JA 1/10W	R819	401 025 7805	CARBON 2.2K JA 1/6W
R363	401 038 0800	MT-GLAZE 22K JA 1/10W	R820	401 037 5608	MT-GLAZE 10K JA 1/10W
R364	401 037 5202	MT-GLAZE 100 JA 1/10W	R821	401 038 0800	MT-GLAZE 22K JA 1/10W
R365	401 038 6406	MT-GLAZE 4.7K JA 1/10W	R822	401 038 6505	MT-GLAZE 47K JA 1/10W
R431	401 038 3504	MT-GLAZE 330 JA 1/10W	R823	401 025 7805	CARBON 2.2K JA 1/6W
R432	401 038 3504	MT-GLAZE 330 JA 1/10W	R824	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R433	401 010 3102	CARBON 470 JA 1/2W	R825	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R434	401 067 9201	OXIDE-MT 390 JA 2W	R831	401 037 5608	MT-GLAZE 10K JA 1/10W
R435	402 069 8704	WIRE WOUND 8.2 KA 7W	R832	401 037 5608	MT-GLAZE 10K JA 1/10W
	402 076 0609	WIRE WOUND 8.2 KA 7W	R833	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R436	401 021 3009	CARBON 5.6K JA 1/4W	R838	401 037 8005	MT-GLAZE 15K JA 1/10W
R441	401 058 3706	OXIDE-MT 1K JA 1W	R839	401 026 4605	CARBON 33K JA 1/6W
R447	401 026 9907	CARBON 4.7K JA 1/6W	R840	401 026 9600	CARBON 470 JA 1/6W
R448	401 009 5803	CARBON 330 JA 1/2W	R841	401 038 0800	MT-GLAZE 22K JA 1/10W
R451	401 064 5701	OXIDE-MT 1.8 JA 2W	R842	401 026 9907	CARBON 4.7K JA 1/6W
R481	401 025 4903	CARBON 180K JA 1/6W	R843	401 037 5608	MT-GLAZE 10K JA 1/10W
R482	401 027 2600	CARBON 5.6K JA 1/6W	R844	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R501	401 026 9907	CARBON 4.7K JA 1/6W	R845	401 037 5608	MT-GLAZE 10K JA 1/10W
ΔR502	402 051 8705	FUSIBLE RES 4.7 J- 1/2W	R846	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R504	401 027 3003	CARBON 56K JA 1/6W	R847	401 037 5608	MT-GLAZE 10K JA 1/10W
R505	401 024 7400	CARBON 10K JA 1/6W	R848	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R506	401 025 1605	CARBON 1.5K JA 1/6W	R849	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R507	401 025 3807	CARBON 180 JA 1/6W	R851	401 037 5400	MT-GLAZE 1K JA 1/10W
R508	401 025 7805	CARBON 2.2K JA 1/6W	R852	401 037 5400	MT-GLAZE 1K JA 1/10W
R509	401 057 9105	OXIDE-MT 1.2 JA 1W	R853	401 038 0800	MT-GLAZE 22K JA 1/10W
R511	401 060 7402	OXIDE-MT 270 JA 1W	R861	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R513	401 059 3903	OXIDE-MT 1.5K JA 1W	R862	401 038 0800	MT-GLAZE 22K JA 1/10W
R602	402 067 7709	WIRE WOUND 3.9 KA 7W	R863	401 038 0800	MT-GLAZE 22K JA 1/10W
	402 072 4403	WIRE WOUND 3.9 KA 7W	R864	401 039 0304	MT-GLAZE 820 JA 1/10W
R611	401 027 2600	CARBON 5.6K JA 1/6W	R865	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R615	401 025 8208	CARBON 22K JA 1/6W	R866	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R617	401 024 9305	CARBON 1.2K JA 1/6W	R867	401 038 6406	MT-GLAZE 4.7K JA 1/10W

Ref. No.	Part No.	Deacription	Ref. No.	Part No.	Deacription
R868	401 037 6704	MT-GLAZE 1.2K JA 1/10W	L441A	610 000 0605	LINEARITY COIL
R869	401 038 2200	MT-GLAZE 27K JA 1/10W		610 210 8071	LINEARITY COIL
R870A	401 038 0800	MT-GLAZE 22K JA 1/10W	L442	610 000 0278	COIL
R871	401 038 6406	MT-GLAZE 4.7K JA 1/10W		610 205 1117	COIL
R872	401 038 3702	MT-GLAZE 33K JA 1/10W	L501	645 008 5642	INDUCTOR,3.3U K
R873	401 038 6406	MT-GLAZE 4.7K JA 1/10W	<u>A</u> L601	645 012 3337	LINE FILTER
R874	401 037 5608	MT-GLAZE 10K JA 1/10W	L607	610 237 1000	PIPE CORE
R875	401 038 7700	MT-GLAZE 5.6K JA 1/10W	L608	610 237 1000	PIPE CORE
R876	401 037 5608	MT-GLAZE 10K JA 1/10W	L641	645 002 1787	CORE,PIPE
R877	401 039 0403	MT-GLAZE 8.2K JA 1/10W	L642	645 002 1787	CORE,PIPE
R878	401 037 7909	MT-GLAZE 1.5K JA 1/10W	L643	645 002 1787	CORE,PIPE
R879	401 037 5608	MT-GLAZE 10K JA 1/10W	L871	645 008 0203	INDUCTOR,5.6U K
R880	401 038 6505	MT-GLAZE 47K JA 1/10W	L881	645 001 4697	INDUCTOR,1.5U M
R884	401 037 7800	MT-GLAZE 150 JA 1/10W			
R885	401 038 5102	MT-GLAZE 3.9K JA 1/10W	DIODE		
R886	401 037 7800	MT-GLAZE 150 JA 1/10W	D1005	407 063 8309	ZENER DIODE MTZJ11C
R887	401 038 5102	MT-GLAZE 3.9K JA 1/10W		407 158 3400	ZENER DIODE UZ-11BSC
R888	401 037 5202	MT-GLAZE 100 JA 1/10W	D1007	407 063 8309	ZENER DIODE MTZJ11C
R889	401 037 5202	MT-GLAZE 100 JA 1/10W		407 158 3400	ZENER DIODE UZ-11BSC
R892	401 038 6406	MT-GLAZE 4.7K JA 1/10W	D1008	407 063 8309	ZENER DIODE MTZJ11C
R895	401 037 6704	MT-GLAZE 1.2K JA 1/10W		407 158 3400	ZENER DIODE UZ-11BSC
			D1010	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1011	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1021	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1022	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1023	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1024	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1026	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1027	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1101	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1201	407 053 6803	ZENER DIODE MTZ5.6C
				407 057 0104	ZENER DIODE RD5.6EB3
				407 151 8501	ZENER DIODE UZ-5.6BCC
			D135	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1901-1	610 255 3956	HOLDER LED-E7GC
			D1901A	407 120 9706	LED LN28RPL
			D1903	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D1905	407 012 4406	DIODE 1SS133
				407 012 5809	DIODE 1SS176
			D201	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D202	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D203	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D210	407 012 4406	DIODE 1SS133
				407 012 5809	DIODE 1SS176
			D221	407 012 4406	DIODE 1SS133
				407 012 5809	DIODE 1SS176
			D222	407 005 4505	DIODE DS442X
				407 013 1008	DIODE 1S1553
				407 013 4306	DIODE 1S2076A
				407 013 6508	DIODE 1S2471
			D271	407 053 6407	ZENER DIODE MTZ5.1C
				407 056 8200	ZENER DIODE RD5.1EB3
				407 163 8209	ZENER DIODE UZ-5.1BCC
			D361	407 063 8309	ZENER DIODE MTZJ11C
				407 158 3400	ZENER DIODE UZ-11BSC
			D431	407 053 8708	ZENER DIODE MTZ9.1A
				407 053 8807	ZENER DIODE MTZ9.1B
				407 057 9602	ZENER DIODE RD9.1EB1
<b>VARIABLE RESISTOR</b>					
VR131	645 006 5422	VR,SEMI,10K N			
	610 239 7567	VR B-10K			
VR361	645 006 5422	VR,SEMI,10K N			
	610 239 7567	VR B-10K			
VR501	645 006 5408	VR,SEMI,100 N			
	610 232 7908	VR,SEMI,100 N			
VR641	645 006 5514	VR,SEMI,2.2K N			
	610 239 7581	VR B-2K			
<b>TRANSFORMER</b>					
T101	610 037 4508	S COIL			
T141	610 037 4522	S COIL			
T431	610 000 1053	DRIVE TRANS			
	610 000 1060	DRIVE TRANS			
<u>A</u> T451	645 014 2987	TRANS,FLYBACK			
<u>A</u> T611	645 015 7646	TRANS,POWER,PULSE			
	645 018 9425	TRANS,POWER,PULSE			
<u>A</u> T681	610 033 3758	POWER TRANS			
	610 240 4722	POWER TRANS			
<b>COIL</b>					
L001	645 008 5635	INDUCTOR,12U K			
L002	645 008 5635	INDUCTOR,12U K			
L003	645 002 1787	CORE,PIPE			
L1002	645 002 1787	CORE,PIPE			
L1003	645 001 4567	INDUCTOR,10U K			
L1004	645 001 4567	INDUCTOR,10U K			
L1005	645 001 4567	INDUCTOR,10U K			
L1006	645 001 4567	INDUCTOR,10U K			
L101	645 001 4567	INDUCTOR,10U K			
L102	645 008 2863	INDUCTOR,4.7U K			
L1022	645 002 1787	CORE,PIPE			
L1023	645 001 4567	INDUCTOR,10U K			
L1024	645 001 4567	INDUCTOR,10U K			
L1025	645 001 4567	INDUCTOR,10U K			
L1026	645 001 4567	INDUCTOR,10U K			
L1027	645 008 2863	INDUCTOR,4.7U K			
L1101	645 001 4567	INDUCTOR,10U K			
L1102	645 001 4567	INDUCTOR,10U K			
L1103	645 008 2863	INDUCTOR,4.7U K			
L141	645 001 4567	INDUCTOR,10U K			
L151	645 003 9713	INDUCTOR,15U K			
L152	645 003 9782	INDUCTOR,22U K			
L201	645 001 4567	INDUCTOR,10U K			
L202	645 001 4567	INDUCTOR,10U K			
L203	645 001 4567	INDUCTOR,10U K			
L231	645 008 2863	INDUCTOR,4.7U K			
L232	645 008 2863	INDUCTOR,4.7U K			
L432	645 002 1787	CORE,PIPE			

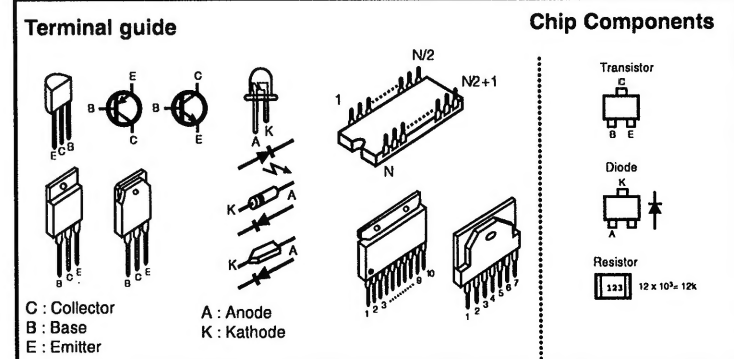








Voltage on Transistors											
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 3.8V C 3.2V B 3.2V	E 0.2V C 0.2V B 0.2V	E 0.3V C 0.2V B 0.7V	E 0.1V C 2.4V B 2.4V	E 2.6V C 3.1V B 0.8V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V
Q97	Q98	Q99	Q100								
E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0.12V C 0.12V B 0.12V	E 0.2V C 0.19V B 0.5V	E 0.2V C 0.19V B 0.5V	E 0V C 0.01V B 0.01V	E 10.9V C 10.9V B 10.9V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V	E 0V C 0.01V B 0.01V



D : Carbon  
N : Metallized carbon  
S : Oxide metallized  
W : Wire winding  
G : Solid



The diagram is a complex schematic of the K3812 IC. It features a central logic core with multiple input and output ports. Key components labeled include ROM (Read-Only Memory) blocks at the top and bottom, RAM (Random Access Memory) blocks on the left and right, and various logic gates and control units. Pin numbers are indicated around the perimeter, ranging from 1 to 40. The schematic uses standard electronic symbols for gates, flip-flops, and memory elements, connected by a network of lines representing data and control paths.

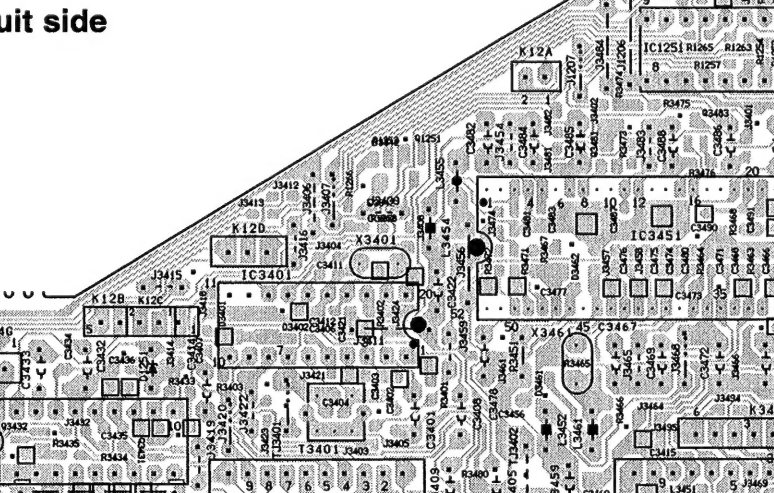
Diagram illustrating the location of the VR600 camera head components:

- VR611 R-BIAS
- VR621 G-BIAS
- VR601 B-BIAS
- VR612 R-DRIVE
- VR602 B-DRIVE

The diagram shows the VR600 camera head with the locations of the VR611, VR621, VR601, VR612, and VR602 components indicated by arrows and labels. The VR611, VR621, and VR601 components are located on the left side of the camera head, while the VR612 and VR602 components are located on the right side. The VR611 and VR621 components are labeled as R-BIAS and G-BIAS respectively, and the VR601 component is labeled as B-BIAS. The VR612 and VR602 components are labeled as R-DRIVE and B-DRIVE respectively. The diagram also shows the location of the Q611, Q621, and Q601 components, which are labeled as Q611, Q621, and Q601 respectively.

# Audio Board

## Circuit side



This image shows the circuit side of the Audio Board. The board is populated with various electronic components, including integrated circuits (ICs), resistors, capacitors, and connectors. Key components visible include:

- ICs:** IC12A, IC12B, IC12C, IC12D, IC12E, IC12F, IC12G, IC12H, IC12I, IC12J, IC12K, IC12L, IC12M, IC12N, IC12O, IC12P, IC12Q, IC12R, IC12S, IC12T, IC12U, IC12V, IC12W, IC12X, IC12Y, IC12Z, IC12AA, IC12AB, IC12AC, IC12AD, IC12AE, IC12AF, IC12AG, IC12AH, IC12AI, IC12AJ, IC12AK, IC12AL, IC12AM, IC12AN, IC12AO, IC12AP, IC12AQ, IC12AR, IC12AS, IC12AT, IC12AU, IC12AV, IC12AW, IC12AX, IC12AY, IC12AZ, IC12BA, IC12BB, IC12BC, IC12BD, IC12BE, IC12BF, IC12BG, IC12BH, IC12BI, IC12BJ, IC12BK, IC12BL, IC12BM, IC12BN, IC12BO, IC12BP, IC12BQ, IC12BR, IC12BS, IC12BT, IC12BU, IC12BV, IC12BW, IC12BX, IC12BY, IC12BZ, IC12CA, IC12CB, IC12CC, IC12CD, IC12CE, IC12CF, IC12CG, IC12CH, IC12CI, IC12CJ, IC12CK, IC12CL, IC12CM, IC12CN, IC12CO, IC12CP, IC12CQ, IC12CR, IC12CS, IC12CT, IC12CU, IC12CV, IC12CW, IC12CX, IC12CY, IC12CZ, IC12DA, IC12DB, IC12DC, IC12DD, IC12DE, IC12DF, IC12DG, IC12DH, IC12DI, IC12DJ, IC12DK, IC12DL, IC12DM, IC12DN, IC12DO, IC12DP, IC12DQ, IC12DR, IC12DS, IC12DT, IC12DU, IC12DV, IC12DW, IC12DX, IC12DY, IC12DZ, IC12EA, IC12EB, IC12EC, IC12ED, IC12EE, IC12EF, IC12EG, IC12EH, IC12EI, IC12EJ, IC12EK, IC12EL, IC12EM, IC12EN, IC12EO, IC12EP, IC12EQ, IC12ER, IC12ES, IC12ET, IC12EU, IC12EV, IC12EW, IC12EX, IC12EY, IC12EZ, IC12FA, IC12FB, IC12FC, IC12FD, IC12FE, IC12FF, IC12FG, IC12FH, IC12FI, IC12FJ, IC12FK, IC12FL, IC12FM, IC12FN, IC12FO, IC12FP, IC12FQ, IC12FR, IC12FS, IC12FT, IC12FU, IC12FV, IC12FW, IC12FX, IC12FY, IC12FZ, IC12GA, IC12GB, IC12GC, IC12GD, IC12GE, IC12GF, IC12GG, IC12GH, IC12GI, IC12GJ, IC12GK, IC12GL, IC12GM, IC12GN, IC12GO, IC12GP, IC12GQ, IC12GR, IC12GS, IC12GT, IC12GU, IC12GV, IC12GW, IC12GX, IC12GY, IC12GZ, IC12HA, IC12HB, IC12HC, IC12HD, IC12HE, IC12HF, IC12HG, IC12HH, IC12HI, IC12HJ, IC12HK, IC12HL, IC12HM, IC12HN, IC12HO, IC12HP, IC12HQ, IC12HR, IC12HS, IC12HT, IC12HU, IC12HV, IC12HW, IC12HX, IC12HY, IC12HZ, IC12IA, IC12IB, IC12IC, IC12ID, IC12IE, IC12IF, IC12IG, IC12IH, IC12II, IC12IJ, IC12IK, IC12IL, IC12IM, IC12IN, IC12IO, IC12IP, IC12IQ, IC12IR, IC12IS, IC12IT, IC12IU, IC12IV, IC12IW, IC12IX, IC12IY, IC12IZ, IC12JA, IC12JB, IC12JC, IC12JD, IC12JE, IC12JF, IC12JG, IC12JH, IC12JI, IC12JJ, IC12JK, IC12JL, IC12JM, IC12JN, IC12JO, IC12JP, IC12JQ, IC12JR, IC12JS, IC12JT, IC12JU, IC12JV, IC12JW, IC12JX, IC12JY, IC12JZ, IC12KA, IC12KB, IC12KC, IC12KD, IC12KE, IC12KF, IC12KG, IC12KH, IC12KI, IC12KJ, IC12KK, IC12KL, IC12KM, IC12KN, IC12KO, IC12KP, IC12KQ, IC12KR, IC12KS, IC12KT, IC12KU, IC12KV, IC12KW, IC12KX, IC12KY, IC12KZ, IC12LA, IC12LB, IC12LC, IC12LD, IC12LE, IC12LF, IC12LG, IC12LH, IC12LI, IC12LJ, IC12LK, IC12LL, IC12LM, IC12LN, IC12LO, IC12LP, IC12LQ, IC12LR, IC12LS, IC12LT, IC12LU, IC12LV, IC12LW, IC12LX, IC12LY, IC12LZ, IC12MA, IC12MB, IC12MC, IC12MD, IC12ME, IC12MF, IC12MG, IC12MH, IC12MI, IC12MJ, IC12MK, IC12ML, IC12MM, IC12MN, IC12MO, IC12MP, IC12MQ, IC12MR, IC12MS, IC12MT, IC12MU, IC12MV, IC12MW, IC12MX, IC12MY, IC12MZ, IC12NA, IC12NB, IC12NC, IC12ND, IC12NE, IC12NF, IC12NG, IC12NH, IC12NI, IC12NJ, IC12NK, IC12NL, IC12NM, IC12NN, IC12NO, IC12NP, IC12NQ, IC12NR, IC12NS, IC12NT, IC12NU, IC12NV, IC12NW, IC12NX, IC12NY, IC12NZ, IC12OA, IC12OB, IC12OC, IC12OD, IC12OE, IC12OF, IC12OG, IC12OH, IC12OI, IC12OJ, IC12OK, IC12OL, IC12OM, IC12ON, IC12OO, IC12OP, IC12OQ, IC12OR, IC12OS, IC12OT, IC12OU, IC12OV, IC12OW, IC12OX, IC12OY, IC12OZ, IC12PA, IC12PB, IC12PC, IC12PD, IC12PE, IC12PF, IC12PG, IC12PH, IC12PI, IC12PJ, IC12PK, IC12PL, IC12PM, IC12PN, IC12PO, IC12PP, IC12PQ, IC12PR, IC12PS, IC12PT, IC12PU, IC12PV, IC12PW, IC12PX, IC12PY, IC12PZ, IC12QA, IC12QB, IC12QC, IC12QD, IC12QE, IC12QF, IC12QG, IC12QH, IC12QI, IC12QJ, IC12QK, IC12QL, IC12QM, IC12QN, IC12QO, IC12QP, IC12QQ, IC12QR, IC12QS, IC12QT, IC12QU, IC12QV, IC12QW, IC12QX, IC12QY, IC12QZ, IC12RA, IC12RB, IC12RC, IC12RD, IC12RE, IC12RF, IC12RG, IC12RH, IC12RI, IC12RJ, IC12RK, IC12RL, IC12RM, IC12RN, IC12RO, IC12RP, IC12RQ, IC12RR, IC12RS, IC12RT, IC12RU, IC12RV, IC12RW, IC12RX, IC12RY, IC12RZ, IC12SA, IC12SB, IC12SC, IC12SD, IC12SE, IC12SF, IC12SG, IC12SH, IC12SI, IC12SJ, IC12SK, IC12SL, IC12SM, IC12SN, IC12SO, IC12SP, IC12SQ, IC12SR, IC12SS, IC12ST, IC12SU, IC12SV, IC12SW, IC12SX, IC12SY, IC12SZ, IC12TA, IC12TB, IC12TC, IC12TD, IC12TE, IC12TF, IC12TG, IC12TH, IC12TI, IC12TJ, IC12TK, IC12TL, IC12TM, IC12TN, IC12TO, IC12TP, IC12TQ, IC12TR, IC12TS, IC12TT, IC12TU, IC12TV, IC12TW, IC12TX, IC12TY, IC12TZ, IC12UA, IC12UB, IC12UC, IC12UD, IC12UE, IC12UF, IC12UG, IC12UH, IC12UI, IC12UJ, IC12UK, IC12UL, IC12UM, IC12UN, IC12UO, IC12UP, IC12UQ, IC12UR, IC12US, IC12UT, IC12UU, IC12UV, IC12UW, IC12UX, IC12UY, IC12UZ, IC12VA, IC12VB, IC12VC, IC12VD, IC12VE, IC12VF, IC12VG, IC12VH, IC12VI, IC12VJ, IC12VK, IC12VL, IC12VM, IC12VN, IC12VO, IC12VP, IC12VQ, IC12VR, IC12VS, IC12VT, IC12VU, IC12VV, IC12VW, IC12VX, IC12VY, IC12VZ, IC12WA, IC12WB, IC12WC, IC12WD, IC12WE, IC12WF, IC12WG, IC12WH, IC12WI, IC12WJ, IC12WK, IC12WL, IC12WM, IC12WN, IC12WO, IC12WP, IC12WQ, IC12WR, IC12WS, IC12WT, IC12WU, IC12WV, IC12WW, IC12WX, IC12WY, IC12WZ, IC12XA, IC12XB, IC12XC, IC12XD, IC12XE, IC12XF, IC12XG, IC12XH, IC12XI, IC12XJ, IC12XK, IC12XL, IC12XM, IC12XN, IC12XO, IC12XP, IC12XQ, IC12XR, IC12XS, IC12XT, IC12XU, IC12XV, IC12XW, IC12XX, IC12XY, IC12XZ, IC12YA, IC12YB, IC12YC, IC12YD, IC12YE, IC12YF, IC12YG, IC12YH, IC12YI, IC12YJ, IC12YK, IC12YL, IC12YM, IC12YN, IC12YO, IC12YP, IC12YQ, IC12YR, IC12YS, IC12YT, IC12YU, IC12YV, IC12YW, IC12YX, IC12YY, IC12YZ, IC12ZA, IC12ZB, IC12ZC, IC12ZD, IC12ZE, IC12ZF, IC12ZG, IC12ZH, IC12ZI, IC12ZJ, IC12ZK, IC12ZL, IC12ZM, IC12ZN, IC12ZO, IC12ZP, IC12ZQ, IC12ZR, IC12ZS, IC12ZT, IC12ZU, IC12ZV, IC12ZW, IC12ZX, IC12ZY, IC12ZZ.
- Resistors:** R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R

IC1251

IC3451

K34A

K34B

[illegible]



